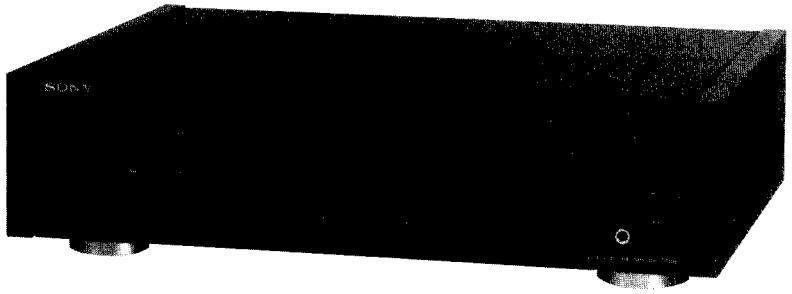
DTC-55ES/75ES/700

SERVICE MANUAL

US Model
DTC-75ES/700

Canadian Model
DTC-75ES

AEP Model
UK Model
DTC-55ES



Model Name Using Similar Mechanism	New Mechanism
Tape Transport Mechanism Type	DTAM-13

SPECIFICATIONS

Tape	Digital audio tape
Recording head	Rotary head
Recording time	Standard: 120 minutes, Long-play mode: 240 minutes (with DT-120)
Tape speed	Standard: 8.15 mm/s, Long-play mode: 4.075 mm/s
Drum rotation	Standard: 2,000 rpm, Long-play mode: 1,000 rpm
Error correction	Double Read Solomon code

Tape

Track pitch	13.6 µm (20.4 µm)
Sampling frequency	48 kHz, 44.1 kHz, 32 kHz
Modulation system	8 – 10 Modulation
Transfer rate	2.46 Mbit/sec.
Number of channel	2 channels, stereo
D/A conversion	Standard: 16-bit linear Long-play mode: 12-bit non-linear
Frequency response	Standard: 2 – 22,000 Hz (±0.5 dB) Long-play mode: 2 – 14,500 Hz (±0.5 dB)
Signal to noise ratio	DTC-55ES/700 : Standard : more than 92dB Long-play mode : more than 92dB DTC-75ES : Standard : more than 93dB Long-play mode : more than 92dB
Dynamic range	DTC-55ES/700 Standard : more than 92dB Long-play mode : more than 92dB DTC-75ES : Standard : more than 93dB Long-play mode : more than 92dB
Total harmonic distortion	DTC-55ES : Standard : less than 0.005% (1kHz) Long-play mode : less than 0.08% (1kHz) DTC-75ES : Standard : less than 0.004% (1kHz) Long-play mode : less than 0.08% (1kHz) DTC-700 : Standard : less than 0.0045% (1kHz) Long-play mode : less than 0.08% (1kHz)
Wow and flutter	Below measurable limit (±0.001% W.PEAK)

Input

	Jack type	Impedance	Rated input level
LINE IN	phono jack	47 kohms	–4 dBs
DIGITAL IN	phono jack	75 ohms	0.5 Vp-p, 20%
DIGITAL IN	optical jack	—	—

– Continued on next page –

MICROFILM

DIGITAL AUDIO TAPE DECK

SONY®

Output

	Jack type	Impedance	Rated output	Load impedance
LINE OUT	phono jack	470 ohms	–4 dBs	More than 10 kohms
PHONES	stereo phono jack	220 ohms	0.6 mW	32 ohms
DIGITAL OUT	phono jack (DTC-75ES/700)	75 ohms	0.5 Vp-p ±20%	—

DIGITAL OUT (optical jack): wavelength 660 nm

General

Power requirements — US, Canadian model: 120V AC, 60Hz
AEP model: 220V AC, 50/60Hz
UK model: 240V AC, 50/60Hz

Power consumption — 32 W

Dimensions — DTC-55ES/75ES :
Approx. 470 × 115 × 330 mm (w/h/d) (18⅝ × 4⅜ × 12⅞ inches) incl. projecting parts and controls
DTC-700 :
Approx. 430 × 115 × 330 mm (w/h/d) (17 × 4⅜ × 12⅞ inches) incl. projecting parts and controls

Weight — DTC-55ES/75ES :
Approx. 8.3 kg (18 lb 5 oz)
DTC-700 :
Approx. 7.5 kg (16 lb 8 oz)

Remote comander (supplied, RM-D55)

Remote control system — Infrared control

Power requirements — 3 V DC, with two size AA (R6) batteries

Dimensions — Approx. 63 × 19 × 175 mm (w/h/d) (2½ × ¾ × 6⅞ inches)

Weight — Approx. 130 g (4 oz) incl. batteries

Supplied accessories

Sony batteries SUM-3(NS) (2)
Audio connecting cords (2 phono plugs - 2 phono plugs, stereo for line inputs and outputs) (2)
Screws (4) (DTC-55ES/75ES)
Digital audio tape DT-60 (1)

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SAFETY-RELATED COMPONENT WARNING!!

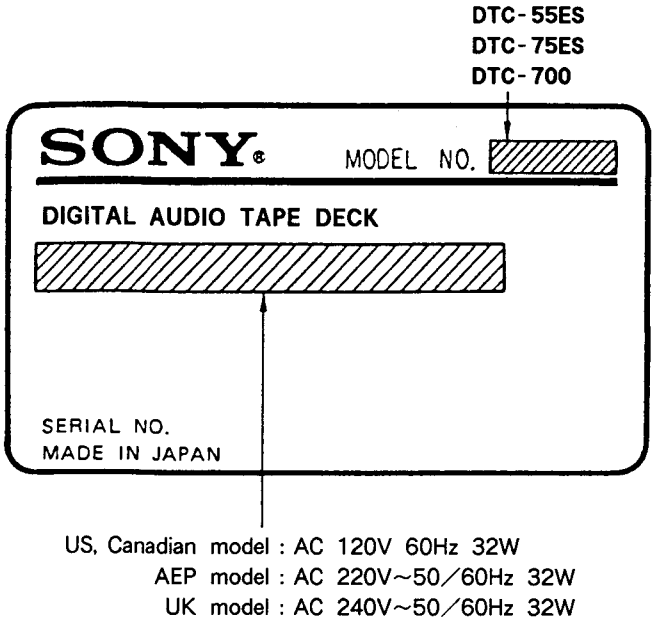
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

– Specification Label –



SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

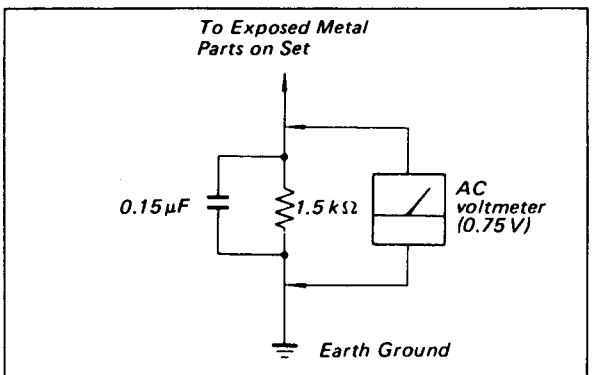
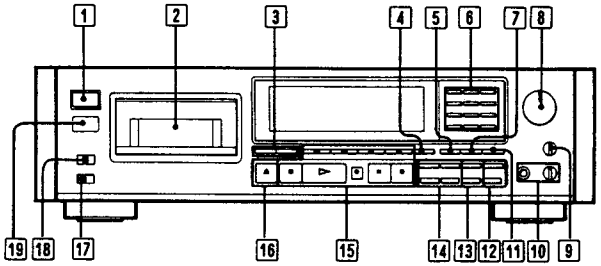
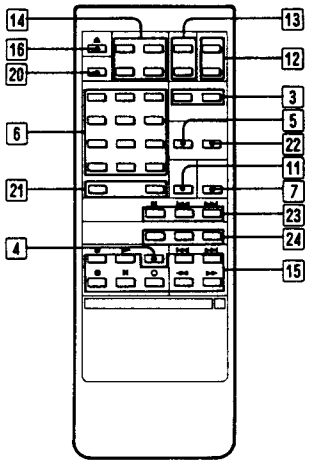


Fig. A. Using an AC voltmeter to check AC leakage.

Location and Function of Controls





Front Panel/Remote Commander

1 POWER switch
Turns the power on and off.

2 Cassette compartment
Insert a cassette with the window side up and the safety tab facing you.

3 COUNTER buttons
MODE: Selects the counter indication in the display window among the linear counter (tape running time), absolute time, elapsed time of the selection, and total remaining time of the tape. Each time you press the button, the indication changes sequentially.
RESET: Resets the linear counter to "0M 00S".

4 FADER button
Press to fade in or fade out during recording or playback.

5 REPEAT button
Press to play a desired portion repeatedly. Each time you press the button, the indication changes as follows:
REPEAT 1 → REPEAT ALL → Nothing

6 Music select buttons
Numeric buttons (0 – 9): Designate the desired program number to be played back before starting playback.
CLEAR: Use to cancel the program number which has been mistakenly entered.
MUSIC SCAN: Use this feature to listen to the beginning of each selection successively.

7 SKIP PLAY button
Press to activate the skip ID code function. The portion of the tape previously marked will be skipped.

8 REC LEVEL (recording level) controls
Adjust the recording level for the analog input signals. The outer knob controls the L (left) channel level and the inner knob the R (right) channel level. The knobs can be adjusted together.
When recording digital signals, it is not necessary to adjust the recording level.

9 INPUT selector
Set according to the signal to be recorded.
ANALOG: For recording from the equipment connected to the LINE IN jacks.
OPTICAL: For recording from the equipment connected to the DIGITAL IN (OPTICAL) jack.
COAXIAL: For recording from the equipment connected to the DIGITAL IN (COAXIAL) jack.

10 PHONES (Headphones) jack and LEVEL controls
The LEVEL controls adjust the headphones volume level.

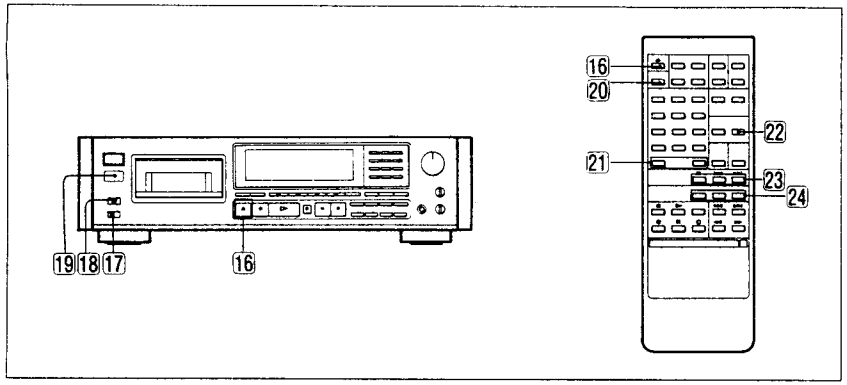
11 MARGIN RESET button
Press to reset the margin of peak level.

12 END ID buttons
WRITE: Press to write the ID signifying the end of playback or recording.
ERASE: Press to erase the end ID.

13 SKIP ID buttons
WRITE: Press at the beginning of the portion you may wish to skip later. A skip ID will be written from the point where you pressed this button.
ERASE: Press to erase the nearest skip ID which is before the current position.

14 START ID buttons
AUTO: Press to turn on and off the AUTO indicator. When the AUTO indicator is lit, the start ID will automatically be written during recording. When the AUTO indicator is not lit, press START ID WRITE at the point where you want to write a start ID.
WRITE: Press to write the start ID at the desired point during recording or playback.
ERASE: Press to erase a start ID. When a start ID and a program number are written on the tape, both codes are simultaneously erased by pressing this button.
RENUMBER: Press to renumber all programs on the tape. When only the start IDs are written, pressing this button will insert the proper program numbers beginning with "1". The tape will rewind and start from the beginning to accomplish this function.

15 Tape operating buttons
■ **(stop):** Press to stop recording or playback.
▷ **(play):** Press to play back the tape.
● REC **(recording):** Press to start recording. After pressing this button, press ❚❚ or ▷.
❚❚ PAUSE **(pause):** Press to stop for a moment during recording or playback. To restart recording or playback, press this button again or press ▷.
If the unit is left in the pause mode for about 10 minutes, it will be automatically released and the deck will enter the stop mode. To restart recording or playback from the stop mode, press REC or ▷ respectively.
REC MUTE **(record muting):** Inserts a sound-muted portion (space).
⋈◁, ▷⋈ **(AMS):** Press to locate the beginning of the selection during the playback.
◀◀, ▶▶ **(rewind/review, fast-forward/cue):** In the stop mode, press to rewind/fast-forward the tape. During playback, press to rewind or fast-forward the tape while listening to the sound.



16 ⏏ OPEN/CLOSE **(load/eject):** Press when inserting or removing the cassette.

17 **REC MODE selector:** Normally set to STANDARD. When this selector is set to LONG, you can record analog input signals and digital input signals with 32 kHz in the long-play mode.

18 **TIMER switch**
Normally set to OFF. Use to start recording or playback at the desired time using a commercially available audio timer.

19 **Remote sensor**
Receives the signal from the Remote Commander.

Remote Commander

20 **DISPLAY MODE button:** Press to turn on and off the indicators in the display.

21 **RMS play buttons**
ENTER: To program the selections in a desired order, press this button after pressing the numeric buttons.
CHECK: Press to check the programmed contents.

22 **REPEAT A↔B button:** Press to play back a desired portion repeatedly.

23 **CD operation buttons**
Operative only for the Sony CD player equipped with a Remote Commander.
II (pause): Sets the CD player in the pause mode during playback. Press again to release pause. If pressed twice when the player is in the stop mode, playback starts.
⏮ ⏭ (AMS): Press to locate the desired selection on the Compact Disc during playback or in the stop mode.

24 **CD SYNCHRO (CD synchronized recording) buttons**
STANDBY: Press to set the unit in the record-standby mode.
START: Press to start recording of the DAT deck and then playback of the CD player.
STOP: Press to stop the DAT deck recording and the CD player playback.

Remote Commander Operation

Each button on the Remote Commander functions in the same way as those having the same name on the front panel. However, the following operations cannot be performed using the Remote Commander. Use the front panel controls instead.

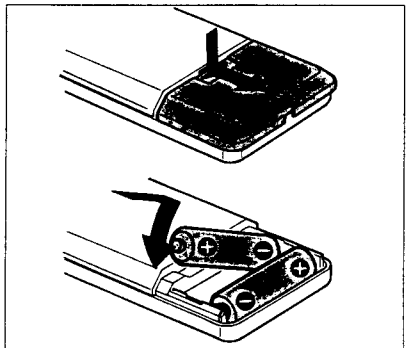
- Turning the power on and off
- Selecting digital (optical/coaxial)/analog input source
- Adjusting the recording level and headphones level
- Setting the timer recording/playback
- Selecting the recording mode (standard or long)

The following operations can be performed only with the Remote Commander.

- Activating CD synchronized recording using a Sony CD player and controlling the CD player
- Locating the desired selection on the Compact Disc or setting the CD player in the pause mode (possible only when a Sony CD player is used.)
- Repeat play (A–B)
- RMS* play

*RMS: Random Music Sensor

Installing Batteries



Insert two size AA (R6) batteries with correct polarity, and close the lid.

Notes on remote control
- Do not expose the remote sensor on the deck to strong light such as direct sunlight, lighting apparatus, etc.
- Do not place any obstructions between the Remote Commander and the remote sensor, or else operations will not be performed correctly.
- The controllable range is limited. Point the Remote Commander directly at the remote sensor on the deck.
- When remote control operation distance becomes shorter, the batteries are weak. Replace both batteries with new ones.

To avoid battery leakage
When the commander will not be used for a long period of time, remove the batteries to avoid damage caused by battery leakage and corrosion.

Battery life
About half a year of normal operation can be expected when using the Sony SUM-3 (NS) batteries.

Display Window

To turn off the display window

When the power is turned on, the display window also is turned on. During recording or playback, the display window can be turned off as follows:

When operating with the front panel controls
While pressing COUNTER MODE, press 0.

When operating with the Remote Commander
Press DISPLAY MODE.

Each time you press the above buttons, the indicators changes as follows:

Normal indicators ←
↓
Peak level meters and margin indicators go off.
(DISPLAY OFF indicator lights.)
↓
All the indicators go off during recording or playback.*
(DISPLAY OFF AUTO indicator lights momentarily just before the indicators go off.)

* When pressing COUNTER MODE or DISPLAY MODE, except during recording or playback, DISPLAY OFF AUTO lights. In this case, all the indicators go off immediately after recording or playback starts.

To change the brightness of the display window

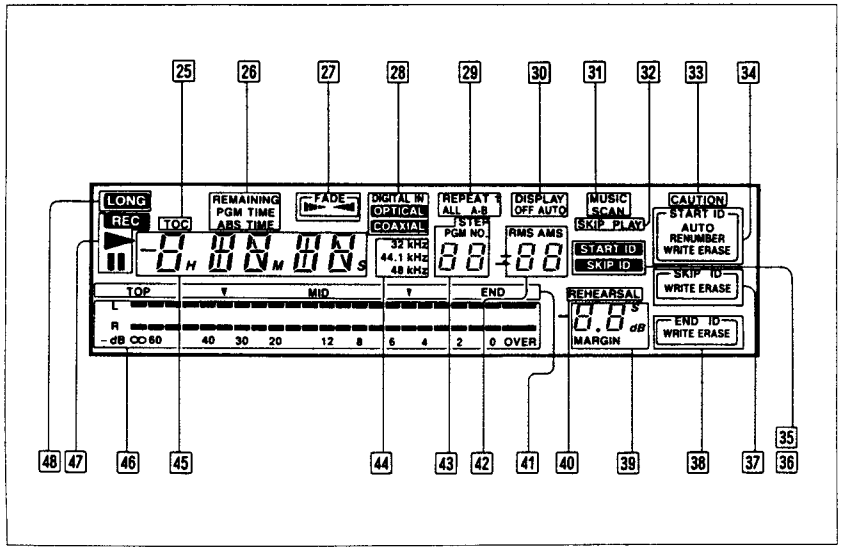
While pressing COUNTER MODE, press one of the numeric buttons 1, 2 and 3. The greater number pressed, the darker the display window becomes.
(When operating with the Remote Commander, also press COUNTER MODE.)

25 TOC (Table of contents) indicator
When a pre-recorded DAT cassette is played back, this indicator will light.

26 REMAINING (remaining time) indicator
Lights when the counter shows the remaining time of the tape.
PGM TIME (program time) indicator
Lights when the counter shows the elapsed time of the current selection.
ABS TIME (absolute time) indicator
Lights when the counter shows the tape running time from the beginning.

During normal tape counter mode, the above three indicators all go off.

27 Fade-in/out indicators
FADE : Blinks when recording or playback fades in.
FADE : Blinks when recording or playback fades out.



28 Indicators of the INPUT selector
The OPTICAL or COAXIAL indicator lights according to the position of the INPUT selector. No indicator lights when the INPUT selector is set to ANALOG.

29 REPEAT indicators
REPEAT 1: Lights when a desired selection is played back repeatedly.
REPEAT ALL: Lights when all the selections are played back repeatedly.
REPEAT A-B: Lights when a desired portion is played back repeatedly.

30 DISPLAY mode indicators
DISPLAY OFF indicator lights when peak level meters and margin indicators are turned off. DISPLAY OFF AUTO lights momentarily before all the indicators are turned off.

31 MUSIC SCAN indicator
Lights after pressing the MUSIC SCAN button to listen to the beginning of each selection successively.

32 SKIP PLAY indicator
When this indicator is lit during playback, the portion marked by the skip ID is skipped and playback continues from the next start ID.

33 CAUTION indicator
Lights when moisture condensation occurs. If this happens, the deck stops functioning automatically.

34 START ID mode indicators
AUTO: Lights when the AUTO button is pressed to write the start ID automatically.
RENUMBER: Lights when the RENUMBER button is pressed to renumber the program numbers.
WRITE: Lights when writing the start ID manually.
ERASE: Lights when erasing the start ID.

35 START ID indicator
Blinks when writing (for 9 or 18 seconds) or erasing a start ID code, and lights when the start ID is detected during playback.

36 SKIP ID indicator
Lights when writing or erasing a skip ID code or when the skip ID is detected during playback.

37 SKIP ID mode indicators
WRITE: Lights when writing the skip ID.
ERASE: Lights when erasing the skip ID.

38 END ID mode indicators
WRITE: Lights when writing the end ID.
ERASE: Lights when erasing the end ID.

39 MARGIN indicators
Show how much margin there is between the peak level of input audio signal and 0 dB.

40 REHEARSAL indicator
Lights while the rehearsal function is activated.

41 Frequencies map
When pressing 4 while keeping COUNTER MODE pressed, bars indicating the sampling frequencies with which the tape was recorded appear on the peak level meters.

42 AMS (automatic music sensor)
Shows the number of selections to be skipped ahead or behind in the AMS operation. When designating a selection directly by the numeric buttons and the ▷ button, the display shows the program number of the target selection while the selection is being searched for. When programming the desired selections in the RMS operation, the display shows the program number of the selection to be programmed.

43 PGM NO./STEP indicators
Show the program number of the selection being played. When programming the desired selections in the RMS operation, the display shows the step number of the programmed selection.

44 Sampling frequency indicators
48 kHz: For recording/playback of analog input signals (standard mode)
44.1 kHz: For recording/playback of CD and a pre-recorded DAT cassette
32 kHz: For recording/playback of analog input signals (long-play mode)

45 Counter
Displays the linear counter, absolute time, elapsed time of the selection being played, and the total remaining time of the tape. Each time COUNTER MODE is pressed, the display mode changes in turn.

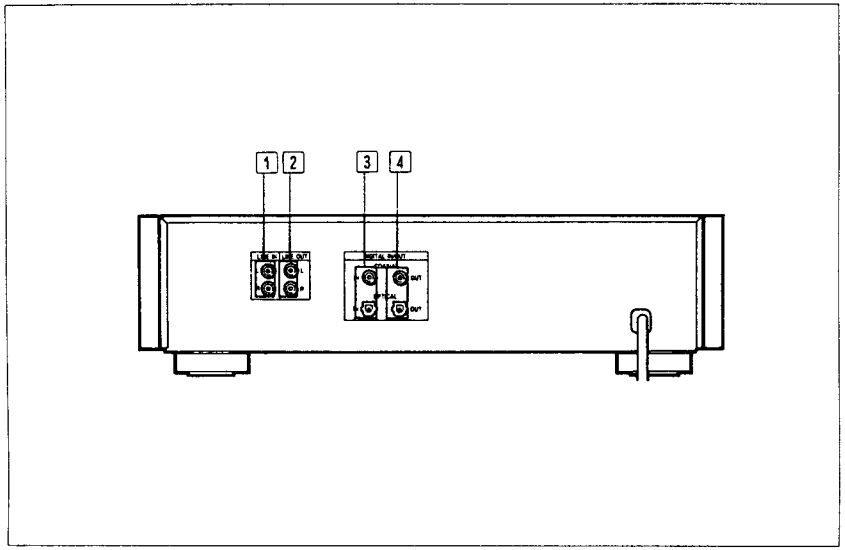
46 Peak level meters
Indicate the level of the audio signal being recorded during recording, and the peak values of the audio signal recorded on the tape during playback.

47 Tape operation indicators
REC : Lights during recording or in the record-pause mode.
▶ : Lights during recording or playback. It also lights in the record-pause mode or in the play-pause mode.
II : Lights in the record-pause mode or in the play-pause mode.

48 LONG mode indicator
Lights when recording or playback is being performed in the long play mode.

Connections

Rear Panel Jacks



1 **LINE IN (line input) jacks (phono jack)**
Connect to the recording outputs of a preamplifier/receiver. Signals supplied by the preamplifier/receiver can be recorded using the sampling frequency of 48 kHz or 32 kHz.

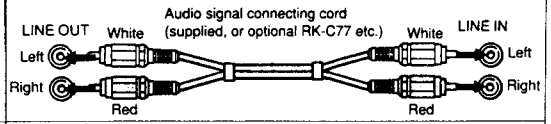
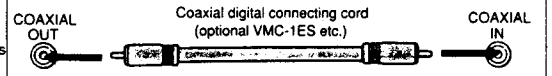
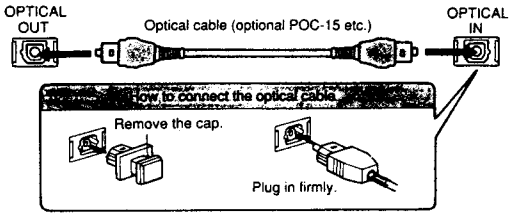
2 **LINE OUT (line output) jacks (phono jack)**
Connect to the DAT or tape inputs of a preamplifier/receiver. The playback signal of this deck will be output.

3 **COAXIAL/OPTICAL DIGITAL IN (digital input) jacks (phono jack/optical jack)**
Connect to the digital outputs of a preamplifier/receiver having a built-in D/A converter or other digital source, such as a CD player for digital-to-digital recording.

4 **COAXIAL(DTC-75ES/700 ONLY)/OPTICAL DIGITAL OUT (digital output) jacks (phono jack/optical jack)**
Connect to the digital inputs of a preamplifier/receiver having a built-in D/A converter or another DAT deck, for playback of a DAT cassette or digital-to-digital recording.

Connecting Cord

There are the following three types of connecting jacks at the rear of the deck. Each type of jack requires a different type of connecting cord.

Jack	Required cord
LINE IN/OUT (analog input/output) jacks	
COAXIAL IN/OUT (digital input/output) jacks	
OPTICAL IN/OUT (optical transmission digital input/output) jacks	

Before connection

- Use the connecting cords specified in the illustrations.
- Turn off the power for all equipment before making connections.
- Be sure to insert the plugs firmly into the jacks. Loose connections may cause hum and noise. When unplugging, grasp the plug and not the cord.

Notes on the optical cable
- Do not bend the cord. When the cord is not used, curl it with a diameter of more than 15 cm (5⅞ inches).
- Do not use it under high temperatures.
- When the optical cable is not connected, cover the OPTICAL IN/OUT jacks with the supplied caps.

Note on sound signals
When connecting a digital connecting cord or an optical cable to the DIGITAL IN/DIGITAL OUT jacks, sound signals (L/R) are transmitted together through the cord or the cable.

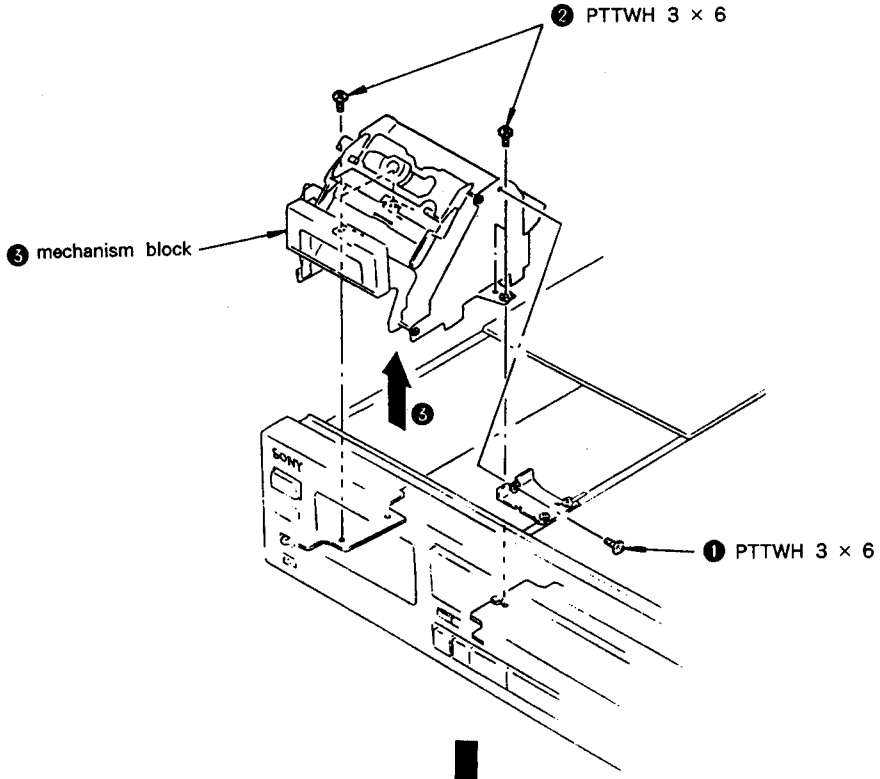
MEMO

SECTION 2
DISASSEMBLY

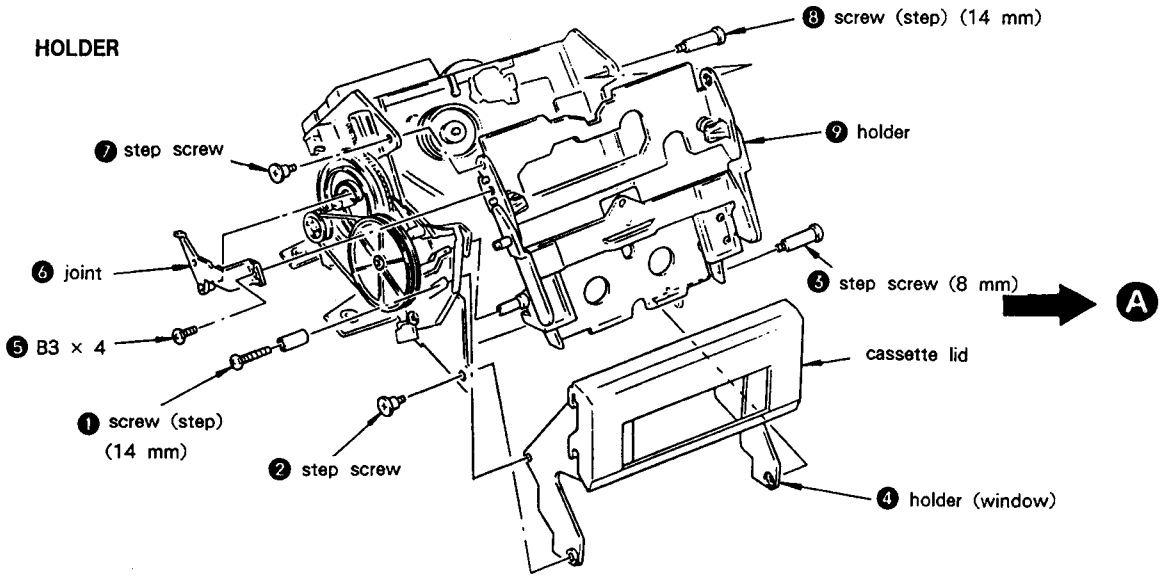
Note : Follow the disassembly procedure numerical order given.

CASE
Unscrew the four case attachment screws and remove the case.

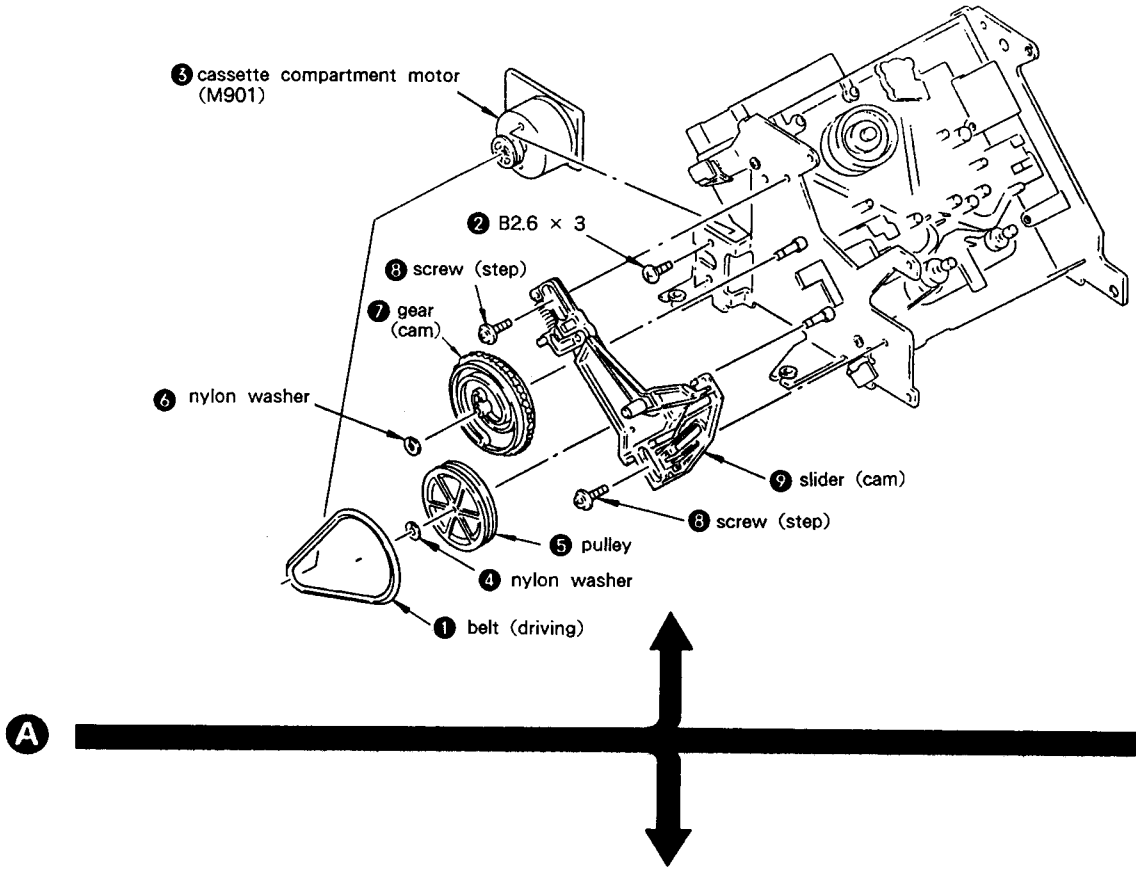
MECHANISM BLOCK



HOLDER

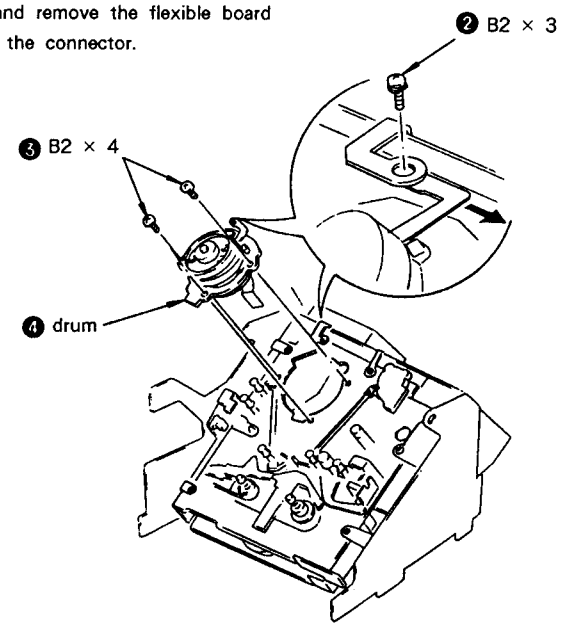


CASSETTE COMPARTMENT MOTOR (M901), PULLEY, GEAR (CAM), SLIDER (CAM)



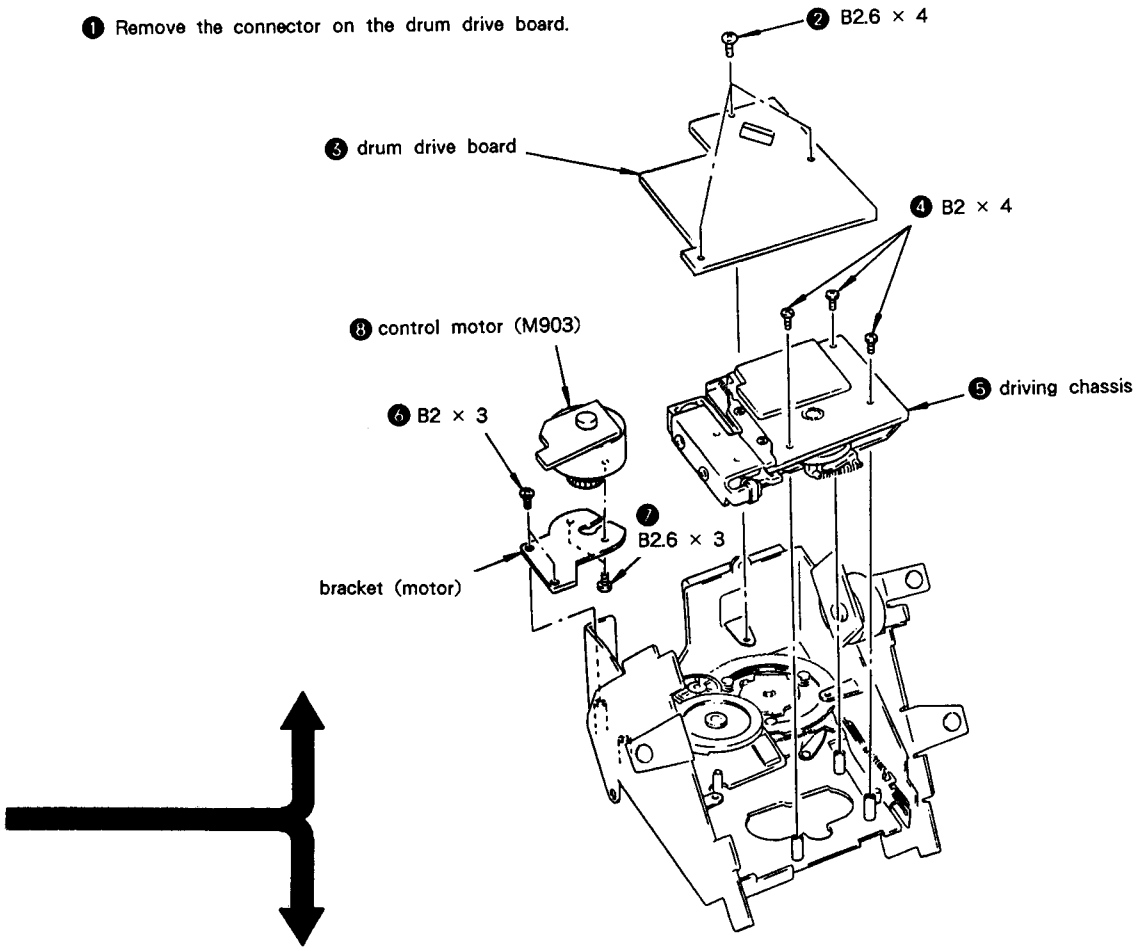
DRUM

❶ Unsolder the drum lead wires and remove the flexible board on rear side of the drum from the connector.

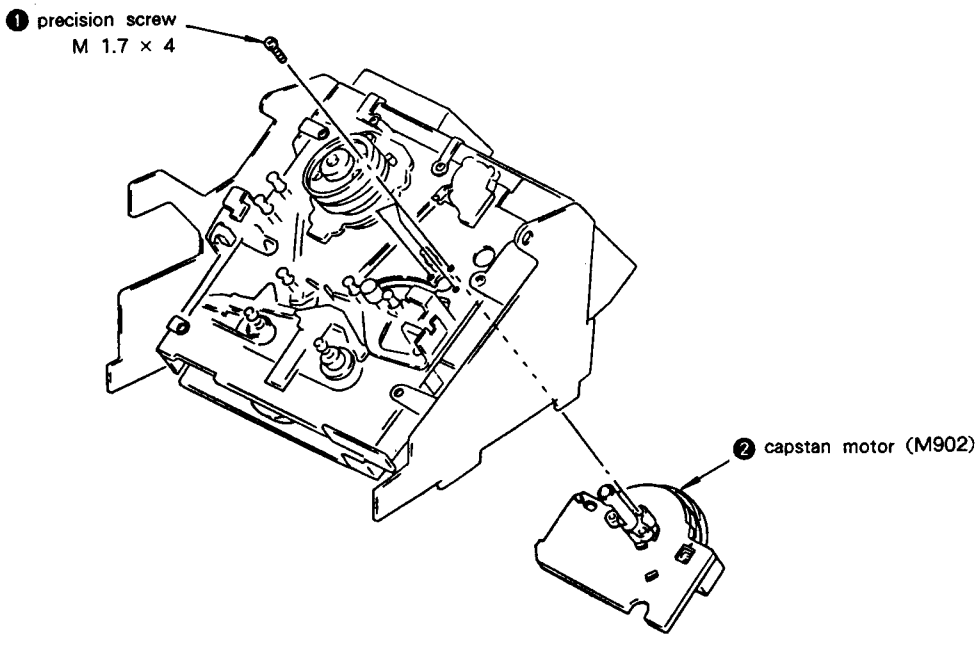


DRUM DRIVE BOARD, DRIVING CHASSIS, CONTROL MOTOR (M903)

❶ Remove the connector on the drum drive board.



CAPSTAN MOTOR (M902)



SECTION 3
ADJUSTMENTS

Notes When Making Adjustments

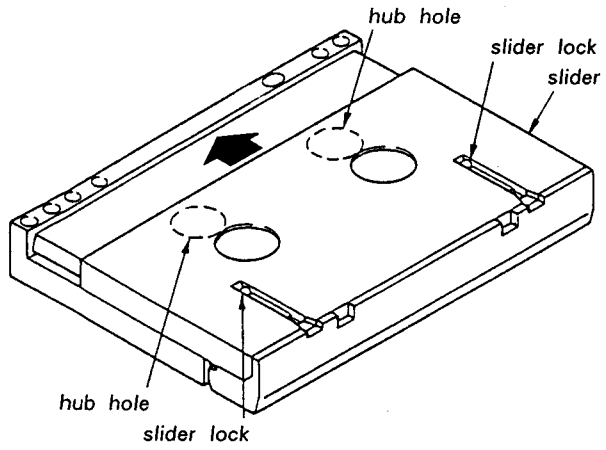
1. Adjustments should be performed in the order listed.

2. Use the following test tapes :
   TY-7111 (8-909-812-00) ····· Level
   TY-7252 (8-909-822-00) ····· Tracking
   TY-7551 (8-909-814-00) ····· Functions
   TY-30B (8-892-358-00) ····· Blank

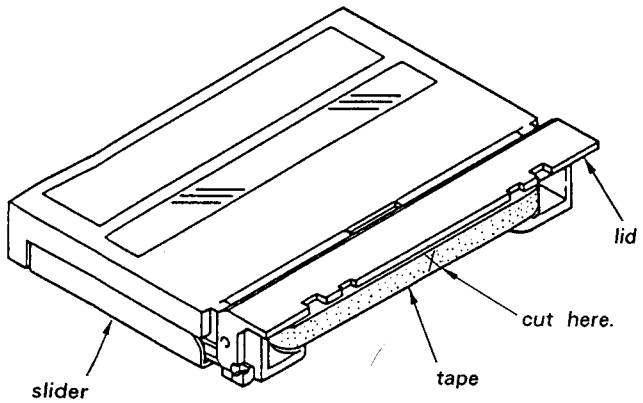
   Use the following torque meter :
   TW-7131 (8-909-708-71) ····· FWD

3. Switches and controls should be set as follows unless otherwise specified.
   TIMER switch : OFF
   REC MODE switch : LONG
   INPUT switch : COAXIAL
   REC LEVEL control : Min.
   PHONES LEVEL control : Min.

4. Creating an end sensor cassette
   (1) Press the tape slider lock and move the slider in the direction indicated by the arrow.



   (2) Open the lid and cut the tape.



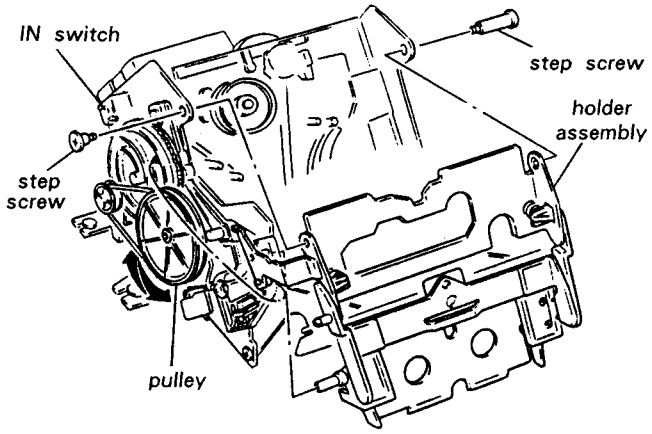
   (3) Turn the hubs until the tape is completely inside the cassette (both T and S sides).
   The end sensor cassette for end sensor adjustment is now ready for use.

5. Be careful not to move RV951 and RV952 on the RF AMP board in the mechanism assembly.

6. To adjust the tape path and guides, remove the holder assembly as shown in the diagram and use the DAT holder jig (J-2000-002-A). This will make it easier to perform adjustments.

- First turning the pulley counterclockwise to put it in loading out status will make removal and reattachment of the holder assembly easier.

- To perform adjustments, turn the pulley clockwise to put it in loading in status, load the cassette tape and set the IN switch to the ON position.

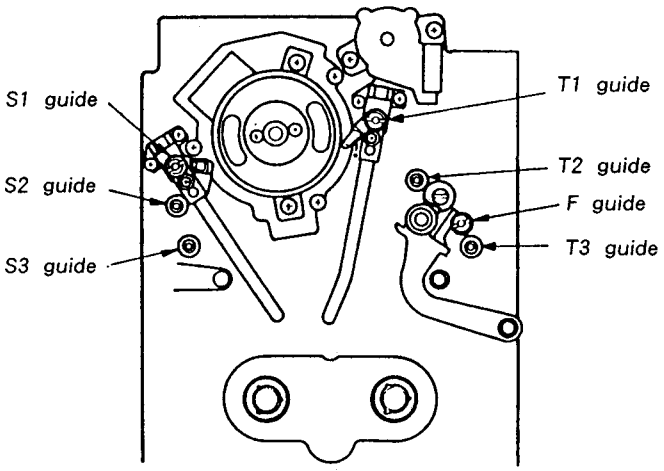


7. Test mode
   To switch to the test mode, connect TP XTEST and GND on the main board and turn power on. In the test mode, when a × 1.5 speed tape (prerecorded tape or test tape) is used and the AMS ⏭ key is pressed, the sampling frequency (FS) indication switches to 30 kHz and the set switches to FWD status. Pressing the AMS ⏮ key causes the set to switch to REV status. With a × 1 tape, pressing the AMS ⏭ key initiates FWD × 16 speed and pressing the AMS ⏮ key initiates REV × 16 speed.
   To cancel the test mode, turn power off and remove the connection between TP XTEST and GND. Be sure to cancel the test mode after adjustments are completed.

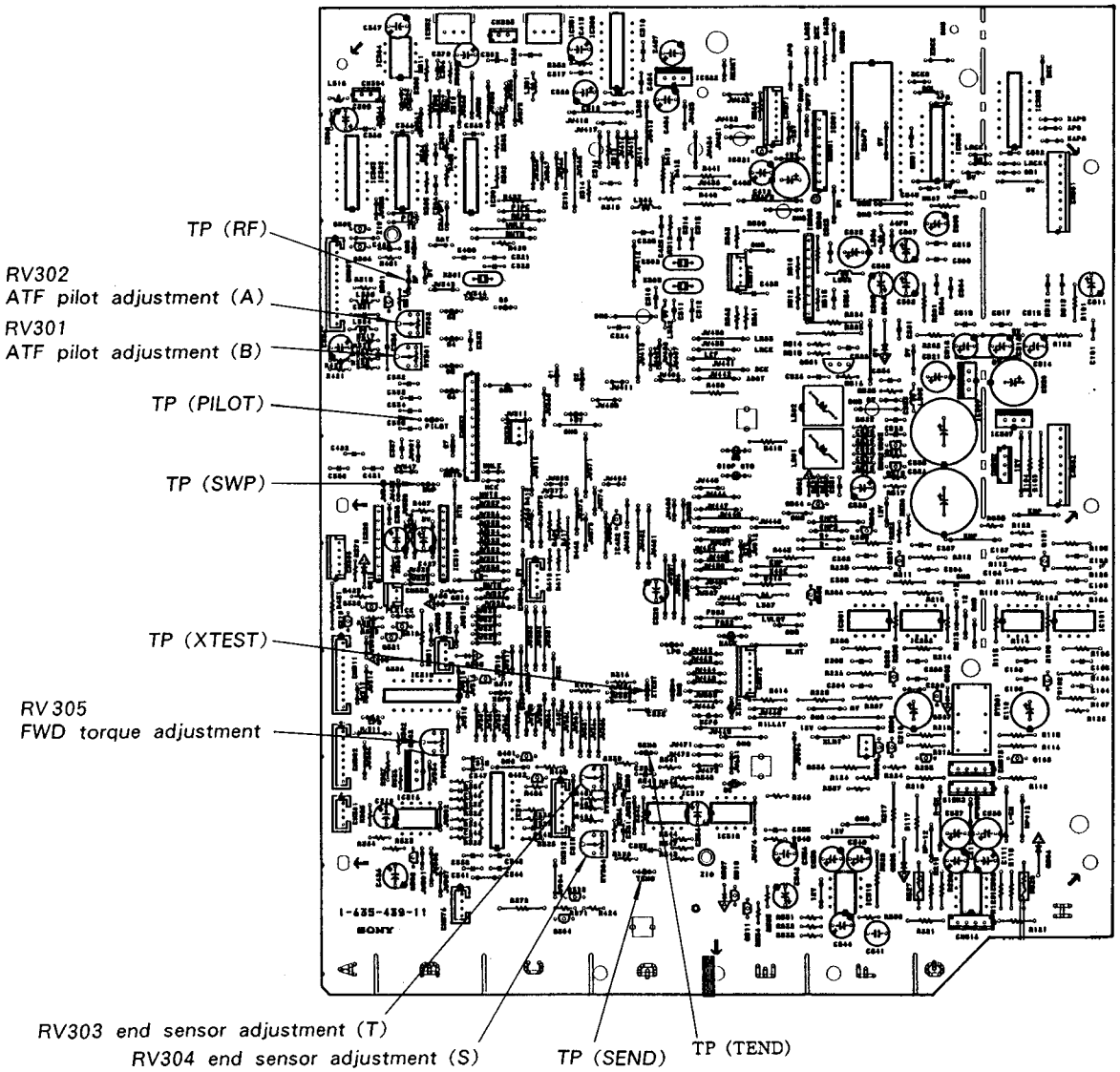
8. After adjustments are completed, check the following items to confirm tape speed accuracy :
   (1) Set the REC MODE switch to STANDARD and confirm that recording and playback operate correctly (× 1 speed).
   (2) Set the REC MODE switch to LONG and confirm that recording and playback operate correctly (× 0.5 speed).
   (3) Confirm that a chirping sound is heard during cue (▶ + ⏭) and review (▶ + ⏮) (× 2.5 speed).
   (4) Confirm that the time display is appropriate after FF (⏭) and REW (⏮) (× 16 speed).
   (5) Confirm that the search (⏭ and ⏮) function operates properly.

Adjustment Parts Location

– Mechanism assembly –



– Main board –



3-1. MECHANICAL ADJUSTMENTS

After replacing the drum or related parts, adjust the T2 and F guides and then perform the tape path (×1.5 FWD mode) fine adjustment of electrical adjustments.

T2 Guide/F Guide Adjustment

Adjustment Procedure :

1. Put the set into the test mode and load test tape TY-7252 (8-909-822-00).

2. Set the REC MODE switch to STANDARD (ATF : OFF) and press the AMS ⏭ key.

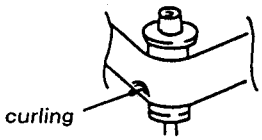
3. Check for curling at the T3 guide. Adjust as described below.

3-1. If there is curling near the top of the T3 guide, adjust the F guide to remove it.

3-2. If there is no curling at the T3 guide no adjustments are necessary.

3-3. If there is curling near the bottom of the T3 guide, adjust the T2 guide to remove it.

* Curling :

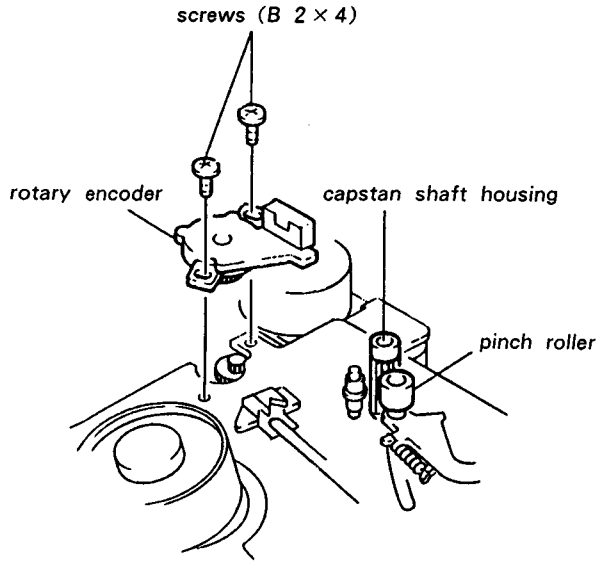


"Curling" refers to distortion on the tape during FWD operation. It can be identified by directing a light at the tape.

Rotary Encoder Adjustment

Adjustment Procedure :

1. Remove the rotary encoder.



2. As shown in Figure A, turn the gear at the back of the chassis clockwise. Stop it at the point where the capstan shaft housing and pinch roller make contact at shown in Figure B.

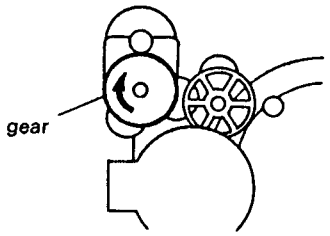


Figure A. Rear of Chassis

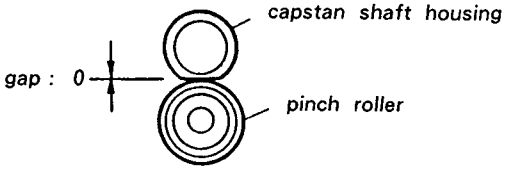


Figure B. Top View

3. In this position, align the line on the gear in the rotary encoder with the △ mark and temporarily fasten it in place.

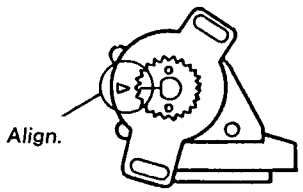


Figure C. Rear of Rotary Encoder

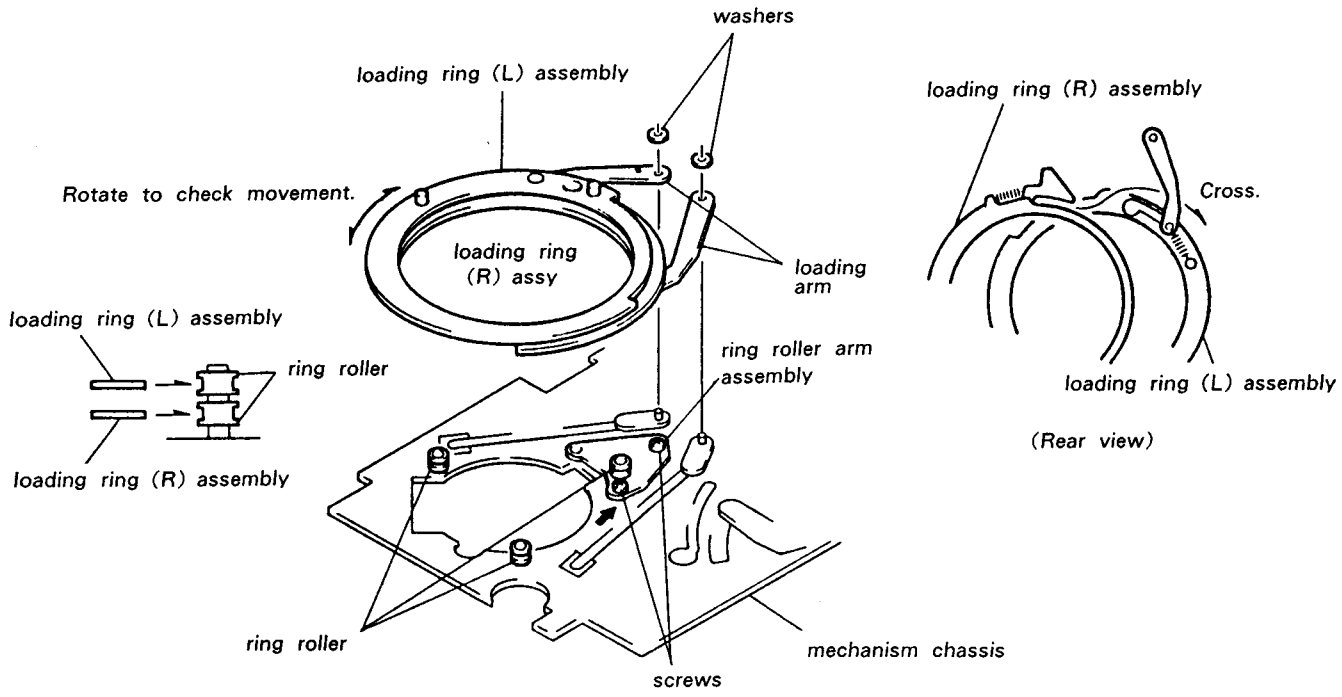
4. Put the set into the test mode.

5. Alternate between PLAY (▶) and STOP (■) a few times. Confirm that during PLAY (▶) the pinch roller makes contact with the capstan shaft and that during STOP (■) status they are as shown in Figure B above. Then tighten the screw securely.

6. If the above conditions are not satisfied, readjust starting from step 1. above.

Loading Ring Attachment

1. Join the loading ring (R) and loading ring (L) assemblies by crossing the portion indicated in the diagram.
2. Insert the A ring rollers (2 places).
3. Mount the B ring rollers so that they match up with the loading rings by pressing on the ring roller assembly in the direction indicated by the arrow and tightening the two screws.
4. Slowly turn the loading rings and confirm that they rotate freely and do not rattle.
5. Insert the loading arms (2) into the shafts and secure them with washers.



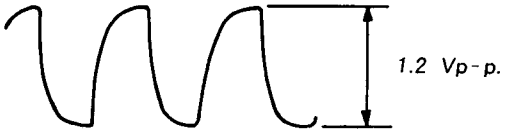
3-2. ELECTRICAL ADJUSTMENTS

End Sensor Adjustment

Perform the following adjustment when the holder has been removed or part of the mechanism deck section replaced.

Adjustment Procedure :

1. Connect an oscilloscope to TP (SEND) (supply side) and TP (TEND) (take-up side) on the main board.
2. Load an end sensor cassette and put the set into the STOP (■) mode.
3. Adjust RV304 (supply side) and RV303 (take-up side) on the main board so that the oscilloscope waveform p-p value is 1.2 Vp-p.



Adjustment Point : main board

FWD Torque Adjustment

Adjustment Procedure :

1. Put the set into the test mode and load the FWD torque meter TW-7131 (8-909-708-71).
2. Put the set into the PLAY (▶) mode.
3. Adjust RV305 so that the FWD torque value (take-up side rewinding torque) is between 10 - 13 g • cm (0.14 - 0.18 oz • inch).
4. Confirm that the value indicated by the torque meter is maintained for one full cycle.

Adjustment Point : main board

FWD Back Tension Check

Check Procedure :

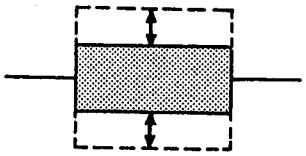
1. Put the set into the test mode and load the FWD torque meter TW-7131 (8-909-708-71).
2. Put the set into the PLAY (▶) mode.
3. Confirm that the back tension (supply side) is between 4.5 - 6.5 g • cm (0.063 - 0.09 oz • inch).
4. Confirm that the value indicated by the torque meter is maintained for 1/2-cycle.

Tape Path Fine Adjustment (× 1.5 FWD Mode)

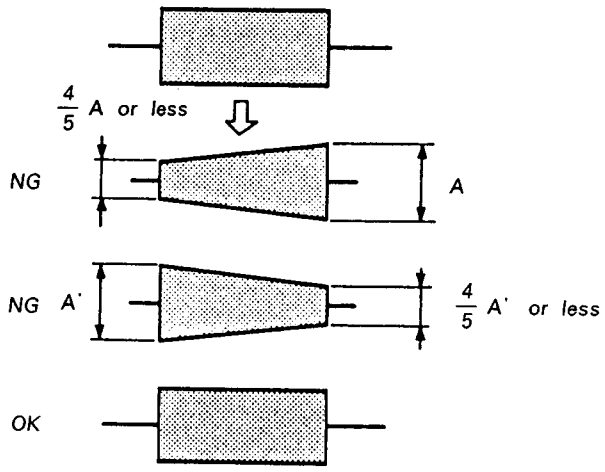
Perform the following adjustment when the drum has been replaced.

Adjustment Procedure :

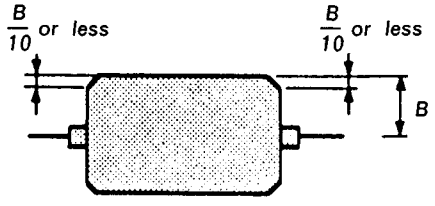
1. Connect an oscilloscope CH-1 to TP (RF) and CH-2 to TP (SWP) on the main board.
2. Put the set into the test mode and load test tape TY-7252 (8-909-822-00).
3. Press the AMS (⏭) key.
4. With the REC MODE switch set to STANDARD (ATF : OFF) and the TIMER switch set to PLAY or REC (OFFSET : + or −), fine adjust the S1 and T1 guides so that the oscilloscope RF signal waveform remains the same when high-low is repeated.



5. Check the RF signal waveform with the REC MODE switch set to LONG (ATF : ON) and the TIMER switch set to PLAY or REC (OFFSET : + or −).



6. Check the RF signal waveform with the REC MODE switch set to LONG (ATF : ON) and the TIMER switch set to OFF (OFFSET : 0).
   (1) Confirm that the RF signal waveform peak value is 60 mV or more.
   (2) Confirm that the undershoot level of the RF signal waveform's flat portion is within 10 %.



7. When the measured values are not within the above tolerances, repeat items 3 - 6 above.

8. In the case of the S2, T2 and F guides, check to make sure that there is no gap between the tape and the bottom flange. Also confirm that there is no curling where the tape makes contact with the bottom flange. When there are any gaps or curling, adjust according to the instructions on page 14.

Adjustment Point : mechanism assembly

DPG Adjustment

Perform the following adjustment without fail when the drum has been replaced.

Adjustment Procedure :

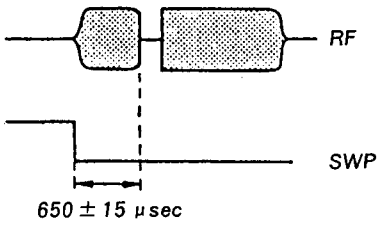
1. Connect oscilloscope CH-1 to TP (RF) and CH-2 to TP (SWP) on the main board.(Use CH-2 as the trigger. When the CH-2 signal is inverted, the trailing edge can be used for synchronization.)

2. Put the set into the test mode and load test tape TY-7252 (8-909-822-00).

3. Set the REC MODE switch to LONG (ATF : ON) and the TIMER switch to OFF (OFFSET : 0).

4. Press the AMS (⏭) key.

5. Press the ◀◀ and ▶▶ keys as appropriate so that the gap between the oscilloscope SWP and RF signals becomes 650 ± 15 μsec.(Hold the ◀◀ and ▶▶ keys down for more than 1 second to perform rough adjustment. Hold them down for approximately 0.2 seconds for fine adjustment.)



ATF Pilot Adjustment

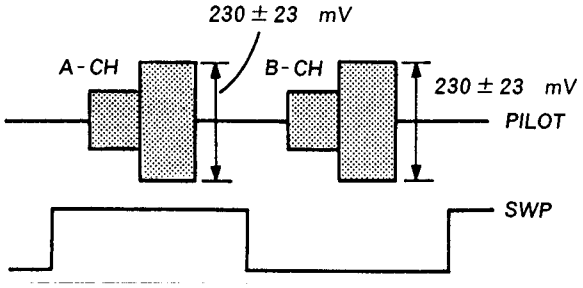
Perform this adjustment after cleaning the heads with a cleaning cassette.

Adjustment Procedure :

1. Connect oscilloscope CH-1 to TP (PILOT) and CH-2 to TP (SWP) on the main board.(Use CH-2 as the trigger.)

2. Put the set into the test mode and load test tape TY-7111 (8-909-812-00).

3. Put the set into the PLAY (▶) mode and adjust RV301 (B-CH) and RV302 (A-CH) on the main board so that the oscilloscope PILOT waveform p-p value is 230 ± 23 mV.



Adjustment Point : main board

SECTION 4
DIAGRAMS

4-1. PIN FUNCTIONS

IC306, CXD1136Q

Pin No.	Pin Name	I/O	Description
1	DIGO	O	Serial data output synchronized with BCK (complement of 2)
2	DIGI	I	Serial data input synchronized with BCK (complement of 2)
3	ERFO	O	Signal output for discriminating whether or not DADT has interpolated data
4	UNDF	O	Detect result for ADDT L, R channel data of -54 dB or less ("L": -54 dB or less)
5	OVFL	O	Detect result for ADDT L channel overflow ("L": overflow detected)
6	OVFR	O	Detect result for ADDT R channel overflow ("L": overflow detected)
7	VSS		GND
8	SUBT	I	Selects whether subcode or 18-bit data is output to ADDT and DIGO ("H" or open: 18-bit data output, "L": subcode output)
9	LSB1	I	MSB/LSB fast switching for DADT, ADDT, DIGI, DIGO ("H" or open: MSB fast, L: LSB fast)
10	LSB2	I	MSB/LSB fast switching for DAC2, ADC2L (ADC2R) ("H" or open: MSB fast, L: LSB fast)
11	OVON	I	Overflow detect result on/off ("H" or open: OVFL, OVFR output valid, L: OVFL, OVFR fixed "H")
12	LCF	I	Low-cut filter on/off ("H" or open: on)
13	ADDA	O	"H" in AD mode (DASL = DIAN = "L")
14	DIAN	I	Sets AD and DA modes
15	DASL	I	Sets AD and DA modes
16	MUTE	I	Soft muting on/off ("H": mute on)
17	ATLV	I	Digital volume range setting ("H" or open: 0--60, -<infinity> dB, "L": +12--48, <infinity> dB
18	ATON	I	Digital volume on/off ("H" or open: off)
19	ATDN	I	Digital volume level down
20	ATUP	I	Digital volume level up
21	ATCK	I	Digital volume level setting clock and soft muting external clock
22	ATEX	I	Soft muting operation clock selection ("H" or open: internal clock, "L": ATCK)
23	VDD	—	Power supply (+5 V)
24	NC		
25	VDD'	—	Oscillator circuit power supply (+5 V)
26	SCK	O	Oscillator clock output
27	NC		
28	XTLI	I	Crystal connector and clock input pin
29	NC		
30	XTLO	O	Crystal connector pin (24.576 MHz oscillation frequency possible)
31	VSS	—	Oscillator circuit GND
32	CKSL	I	Oscillator clock division selection ("H" or open: no division, "L": 1/2 division)
33	NC		
34	NC		
35	DOFF	I	DAC2 digital offset on/off ("H" or open: on)
36	APSL	I	Aperture correction filter coefficient selection (not valid in AD mode) ("H" or open: correction active)
37	LRSL	I	L, R channel phase difference correction selection ("H" or open: correction active)
38	DAC2	O	Serial data output to 2-times oversampling DA converter (complement of 2)
39	VSS	—	Power supply (+5 V)
40	BKSL	I	LRCK, BCK input timing switch ("H" or open: LRCK change point and BCK leading edge synchronized, "L": LRCK change point and BCK trailing edge synchronized)
41	INSL	I	DADT, DIGI, ADC2L (ADC2R) data incorporation clock selection ("H" or open: BCK, "L": INCK)
42	ADSL	I	ADC2L, ADC2R data selection ("H" or open: ADC2L, "L": ADC2L and ADC2R switched by LRCK2)
43	NC		
44	WCK2	O	Clock equivalent to 4fs
45	LR21	O	DAC2 L, R channel discrimination signal in I²S format
46	APTL	O	Aperture signal
47	APTR	O	Aperture signal
48	LRCK2	O	DAC2, ADC2L (ADC2R) L, R channel discrimination signal (equivalent to 2fs) ("L": L channel, "H": R channel)
49	XLRCK2	O	LRCK2 inverted output
50	XBCK	O	BCK inverted output
51	BCK	I	Clock equivalent to 64fs for DADT, ADDT, DIGI, DIGO data incorporation

Pin No.	Pin Name	I/O	Description
52	INCK	I	DADT, DIGI, ADC2L (ADC2R) data incorporation clock
53	VDD		Power supply (+5 V)
54	ADC2L	I	Serial data input from 2-times oversampling AD converter (complement of 2)
55	ADC2R	I	Serial data input from 2-times oversampling AD converter (complement of 2)
56	LRCK	I	DADT, ADDT, DIGI, DIGO L, R channel discrimination signal (fs) ("L": L channel, "H": R channel)
57	ADDT	O	Serial data output synchronized with BCK (complement of 2)
58	ERFI	I	Signal input for discriminating whether or not DADT has interpolated data (complement of 2)
59	DADT	I	Serial data input synchronized with BCK (complement of 2)
60	OVCW	I	Clock input which determines detect time for OVFL, OVFR and UNDF

IC307, CXD2601Q

Pin No.	Pin Name	I/O	Description
1	A08	I/O	RAM address A08
2	A09	I/O	RAM address A09
3	VDD	–	5V
4	A10	I/O	RAM address A10
5	A11	I/O	RAM address A11
6	A12	I/O	RAM address A12
7	A13	O	RAM address A13
8	A14	O	RAM address A14
9	XWE	O	RAM write enable signal
10	XOE	O	RAM output enable signal
11	XEAN	O	External addressing bus interrupt enable signal
12	TST1	I	Test pin (normally "L")
13	XT10	O	18.816 MHz crystal oscillator output
14	XT11	I	18.816 MHz crystal oscillator input
15	VSS	–	GND
16	XRST	I	Reset pin (normally "H")
17	CLKO	I/O	18.816 MHz clock output
18	XCST	I/O	SYEK (internal system clock) generation CLKO division timing signal
19	ATSY	I	ATF sync signal input
20	MCLK	O	9.408 MHz clock output
21	DREF	O	Drum servo reference signal
22	SBPM	O	Discrimination signal determining whether the subcode I/O clock (EXCK) is accepted ("L": accept, "H": ignore)
23	EXCK	I	Subcode I/O data transfer clock (DUTY50)
24	SDSI	I	Subcode serial data input
25	SDSO	O	Subcode serial data output
26	SBSY	O	Subcode I/O sync signal
27	COPY	O	Copy data output
28	EMP	O	Emphasis data output
29	MUTE	I	Mute pin
30	MUTM	O	Mute discrimination signal ("H": muted)
31	UNLK	O	RX PLL lock discrimination signal ("H": locked)
32	ERMN	O	Detects presence or absence of RF ("H": RF present, "L" during REC)
33	SYMN	O	C1 check result for RF ("H": OK)
34	CHER	I	Signal for discriminating whether C2 is 1 or 2 times (C2 → C1 → C2 or C1 → C2) ("H": 1 time, "L": 2 times)

Pin No.	Pin Name	I/O	Description
35	PLCK	I/O	RF PLL clock output
36	TST2	I	Test pin (normally "L")
37	RFDT	I	RF signal input
38	XCS	I	Subcode I/O chip select ("L": select)
39	SWP	O	RF switching pulse ("L": A-CH, "H": B-CH)
40	VSS	–	GND
41	PIPC	O	REC data PILOT/PCM discrimination signal ("H": PILOT, during playback: always "L")
42	REPB	O	Record/playback switching signal ("H": record)
43	REDT	O	Recording signal output, fixed "L" during playback
44	TST4	I	Test pin (normally "L")
45	TST3	O	RX APLL PD output (comparator output)
46	TST5	I	RX APLL oscillator cell amp input
47	TST6	O	RX APLL oscillator cell amp inverted output
48	PLCO	I	RX APLL external VCO clock input
49	PLVR	O	RX APLL comparison signal when external comparator is active (Vin)
50	PLVF	O	RX APLL comparison signal when external comparator is active (Rin)
51	MSSL	I	Master/slave setting ("H": master, "L": slave)
52	RX	I	Digital input
53	VDD	–	5V
54	TX	O	Digital output
55	AUDR	I	Audio mode/data recorder mode setting ("H": audio mode, "L": data recorder mode)
56	EXSY	I/O	Complete copy sync signal (25/3 - 100/3 Hz)
57	EXSN	I/O	Complete copy sync signal (25/3 - 100/3 Hz)
58	F128	I/O	128fsCK (normal)/256fsCK (×2) (DUTY50)
59	F256	O	256fsCK (normal)/512fsCK (×2) (DUTY50)
60	F512	O	512fsCK (normal)/512fsCK (×2) (DUTY50)
61	ADLF	O	Signal for discriminating whether ADDT serial data is MSB fast or LSB fast ("H": LSB fast)
62	DALF	O	Signal for discriminating whether DADT serial data is MSB fast or LSB fast ("H": LSB fast)
63	XT20	O	22.5792 MHz crystal oscillator output
64	XT2I	I	22.5792 MHz crystal oscillator input

Pin No.	Pin Name	I/O	Description
65	VSS	–	GND
66	XT30	O	49.152 MHz crystal oscillator output (24.576 MHz in B mode)
67	XT3I	I	49.152 MHz crystal oscillator input (24.576 MHz in B mode)
68	FSEN	I	F128, BCK, LRCK input/output switch ("H": output)
69	LR03	O	LR02 inversion
70	LR02	O	LRCK 16BCK delay signal
71	LR01	O	LRCK 15BCK delay signal
72	LRCK	I/O	fs (normal)/2fs (×2) ("L": L-CH, "H": R-CH)
73	WCK	I/O	2fs (normal)/4fs (×2) (input mode only for testing)
74	XBCK	O	BCK inversion
75	BCK	I/O	64fs (normal)/128fs (×2)
76	ADDT	I	Serial AD data (complement of 2)
77	DADT	O	Serial DA data (complement of 2)
78	DADO	I	Digital output (DA) data (normally connected to DADT)
79	ADDI	O	Digital input (AD) data output (normally connected to ADDN)
80	ADDN	I	Digital input (DA) data input
81	ERRI	I	Digital output V-FLA data input (normally connected to ERRF)
82	ERRF	O	Signal output for discriminating whether or not DADT has interpolated data ("H": interpolated data)
83	MNTG	O	Error correction status monitor trigger
84	D7	I/O	RAM data bus D7
85	D6	I/O	RAM data bus D6
86	D5	I/O	RAM data bus D5
87	D4	I/O	RAM data bus D4
88	D3	I/O	RAM data bus D3
89	D2	I/O	RAM data bus D2
90	VSS	–	GND
91	D1	I/O	RAM data bus D1
92	D0	I/O	RAM data bus D0
93	A00	I/O	RAM address A00
94	A01	I/O	RAM address A01
95	A02	I/O	RAM address A02
96	A03	I/O	RAM address A03
97	A04	I/O	RAM address A04
98	A05	I/O	RAM address A05
99	A06	I/O	RAM address A06
100	A07	I/O	RAM address A07

IC311, CXA1046M

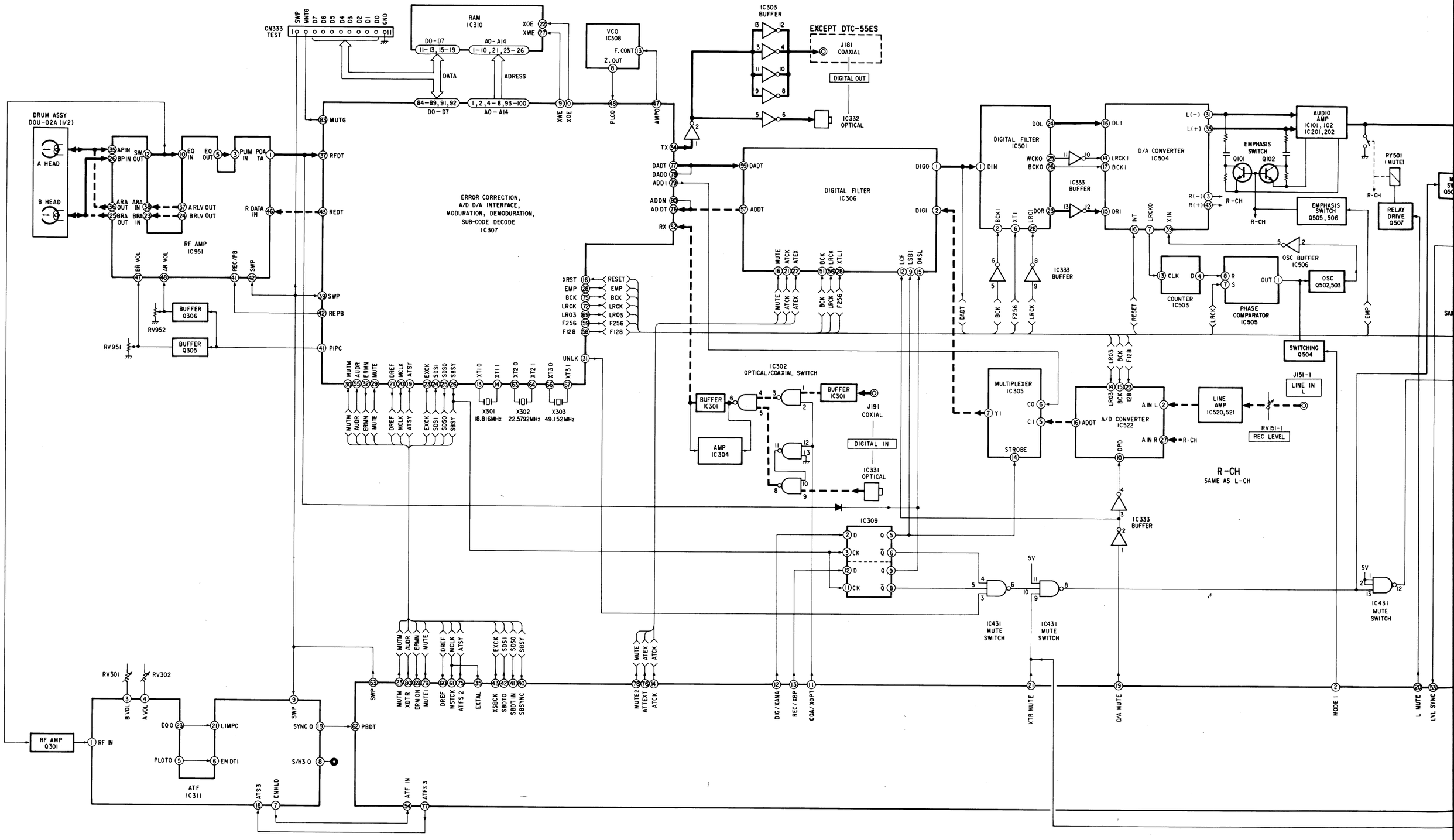
Pin No.	Pin Name	I/O	Description
1	RF IN	I	RF signal input
2	F CTL	I	External resistor connector pin for determining pilot filter (LPF) characteristics
3	B VOL	I	Gain control amp B-CH gain adjustment resistor and bypass capacitor connector pin
4	A VOL	I	Gain control amp A-CH gain adjustment resistor and bypass capacitor connector pin
5	PILOT OUT	O	Pilot signal output
6	ENV DET IN	I	Envelope detect signal
7	ENV HOLD	I	Envelope detect hold capacitor connector pin
8	S/H 3 OUT	O	Sample-hold 3 output pin
9	SWP	I	Processing signal A-CH, B-CH switching control pin ("H": B-CH, "L": A-CH)
10	ATF ON/OFF	I	ATF block (portions other than RF detect) on/off ("L": on)
11	NORM PLAY	I	Determines whether the mode is normal or not ("L": normal mode)
12	ATS1	I	Sample-hold 1 sample pulse input pin
13	TE	O	Tracking error output pin
14	VCC	—	Power supply pin
15	HOLD3C	I	Sample-hold 3 hold capacitor connector pin
16	HOLD2C	I	Sample-hold 2 hold capacitor connector pin
17	ATS2	I	Sample-hold 2 sample pulse input pin
18	ATS3	I	Sample-hold 3 sample pulse input pin
19	SYNC OUT	O	ATF sync output
20	GND	—	GND
21	LIM PC	I	Limitter block bypass capacitor connector pin (-) input (can be exchanged with pin 22)
22	LIM IN	I	Limitter block bypass capacitor connector pin (+) input (can be exchanged with pin 21)
23	EQ OUT	O	ATF sync equalizer output pin
24	PCTL	I	Resistor connector pin for determining sync equalizer phase characteristics
25	LCTL	I	Resistor connector pin for determining sync equalizer low frequency characteristics
26	DET C1	I	Smoothing capacitor connector pin for determining RF detector threshold level
27	DET C2	I	RF envelope wave waveform adjustment capacitor connector pin
28	RF DET OUT	O	RF detector output pin

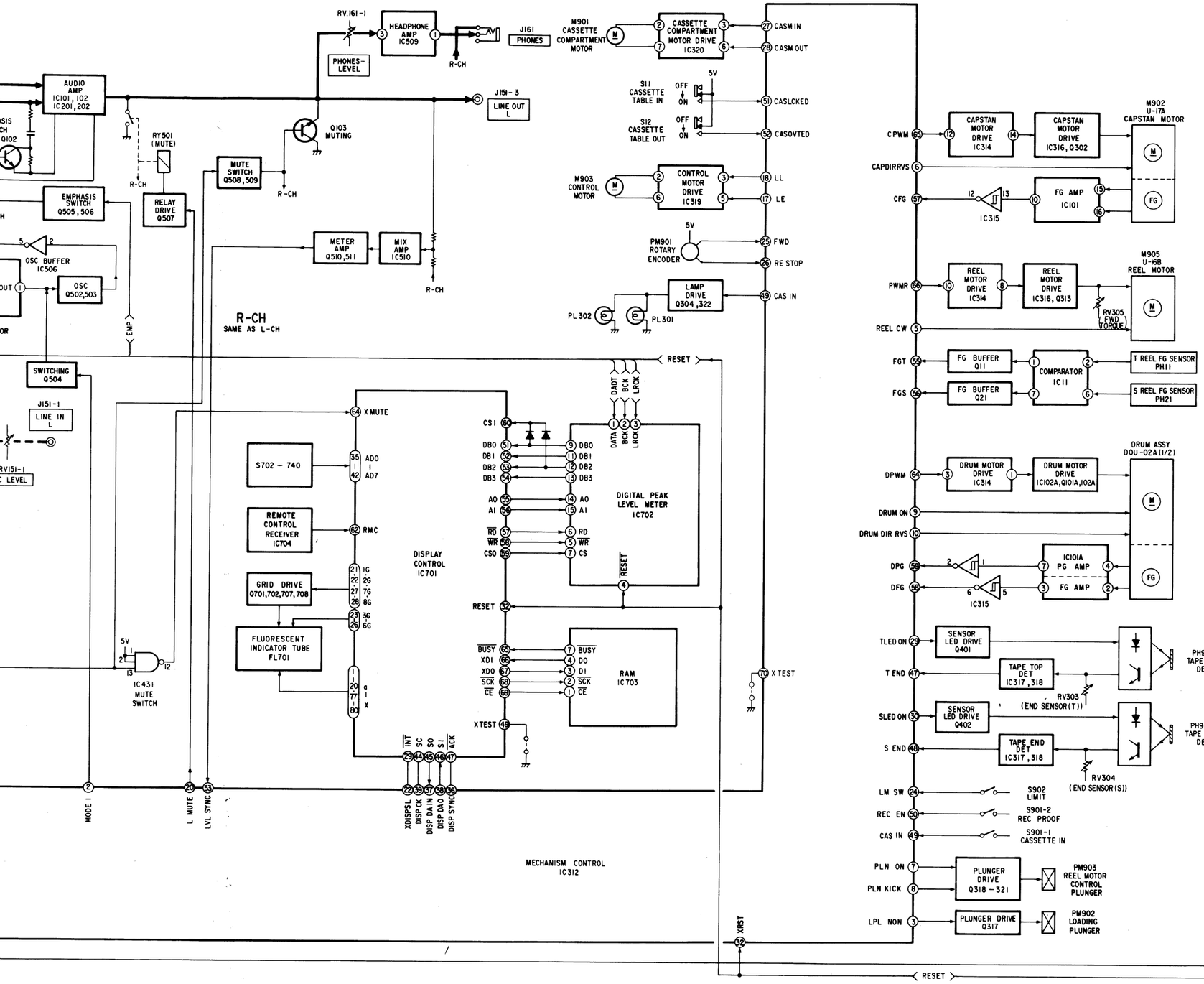
Pin No.	Pin Name	I/O	Description
1	NC		
2	NC		
3	L PLN ON	O	Loading plunger on
4	REEL CCW	O	Reel motor counterclockwise (loading plunger kick)
5	REEL CW	O	Reel motor clockwise (loading plunger kick)
6	CAP DIR RVS	O	Capstan direction ("L": normal, "H": reverse, brake)
7	PLN ON	O	Plunger on
8	PLN KICK	O	Plunger kick
9	DRUM ON	O	Drum on
10	DRUM DIR RVS	O	Drum direction ("L": normal, "H": reverse, brake)
11	COA/XOPT	O	Coaxial ("H")/optical ("L") switch
12	DIG/XANA	O	Fade in/out digital ("H")/analog ("L") switch
13	REC/XPB	O	Fade in/out record ("H")/playback ("L") switch
14	ATCK	O	Fade in/out clock
15	NC		
16	NC		
17	LB	O	Loading motor eject
18	LL	O	Loading motor load
19	D/A MUTE	O	D/A converter muting
20	L MUTE	O	Line muting
21	TR MUTE	O	Transistor muting
22	X DISP SL	O	Display controller select ("L": active)
23	NC		
24	LIM SW	I	Limit switch (eject position detect)
25	RE FWD	I	Rotary encoder FWD
26	RE STOP	I	Rotary encoder STOP
27	CAS M IN	O	Cassette compartment motor IN
28	CAS M OUT	O	Cassette compartment motor OUT
29	T LED ON	O	End sensor T ON (DUTY 50)
30	S LED ON	O	End sensor S ON (DUTY 50)
31	MP	I	Microprocessor mode ("L" for this model)
32	X RST	I	System reset (active low)
33	V_{SS}	—	GND
34	XTAL	O	System clock output
35	EXTAL	I	System clock input
36	DISP SYNC	I	
37	DISP DT I	I	Serial data input from display controller

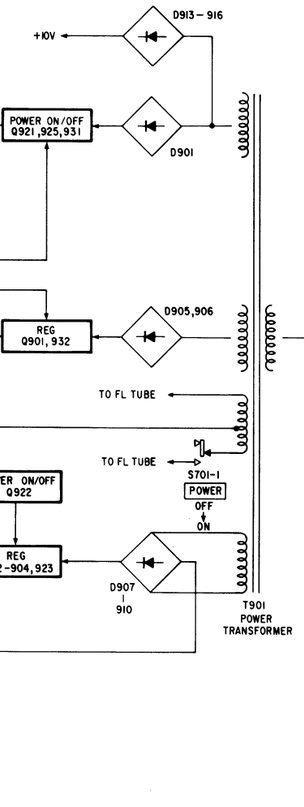
Pin No.	Pin Name	I/O	Description
38	DISP DT O	O	Serial data output to display controller
39	DISP CK	I	Serial data clock from display controller
40	SB SYNC	I	
41	SB DT I	I	Subcode signal input
42	SB DT O	O	Subcode signal output
43	X SB CK	O	Subcode interface serial clock
44	AV_{SS}	–	A/D GND
45	AV_{REF}	–	A/D reference voltage
46	AV_{DD}	–	A/D power supply
47	T END	I	Take-up side end sensor input
48	S END	I	Supply side end sensor input
49	CAS IN	I	Cassette in detect
50	REC EN	I	Erasure prevention slider detect
51	CAS LCKed	I	Cassette compartment lock detect
52	CAS OUTed	I	Cassette compartment out detect
53	LVL SYNC	I	Level sync input
54	ATF IN	I	ATF pilot input
55	FG T	I	Take-up side reel FG signal input
56	FG S	I	Supply side reel FG signal input
57	C FG	I	Capstan FG signal input
58	D FG	I	Drum FG signal input
59	D PG	I	Drum PG signal input
60	D REF	I	Drum reference signal input
61	MST CK	I	Hardware master clock (max. 9.408 MHz)
62	PB DT	I	ATF sync signal playback data
63	SWP	O	Switching pulse
64	D PWM	O	Drum PWM output
65	C PWM	O	Capstan PWM output
66	PWM R	O	Reel PWM output
67	NC		
68	AGC PWM	O	AGC PWM output
69	ER MON	I	Error monitor
70	X TEST	I	Test mode
71	POW DN	I	
72	V_{DD}	–	
73	V_{SS}	–	
74	NC		Power down detect
75	ATF S2	O	ATF sampling pulse #2
76	ATT EXT	O	External attenuator clock
77	ATF S3	O	ATF sampling pulse #3

Pin No.	Pin Name	I/O	Description
78	MUTE2	O	CXD1136Q mute
79	MUTE1	O	CXD2601Q mute
80	X DTR	O	Audio ("H")/data recorder ("L")

4-2. BLOCK DIAGRAM

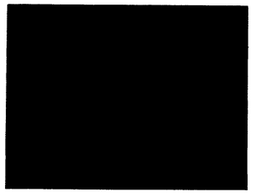



RV.161-1
HEADPHONE AMP IC509
J161 PHONES
PHONES-LEVEL
R-CH
M901 CASSETTE COMPARTMENT MOTOR
CASSETTE COMPARTMENT MOTOR DRIVE IC320
CASS IN
CASS OUT
S11 CASSETTE TABLE IN
S12 CASSETTE TABLE OUT
5V
OFF ON
CASLCKED
CASOVTED
AUDIO AMP IC101, 102 IC201, 202
J151-3 LINE OUT L
Q103 MUTING
RY501 (MUTE)
MUTE SWITCH Q508, 509
EMPHASIS SWITCH Q505, 506
RELAY DRIVE Q507
METER AMP Q510, 511
MIX AMP IC510
M903 CONTROL MOTOR
CONTROL MOTOR DRIVE IC319
LL
LE
PM901 ROTARY ENCODER
FWD
RE STOP
LAMP DRIVE Q304, 322
CAS IN
PL302
PL301
OSC BUFFER IC506
OSC Q502, 503
EMP
R-CH
SAME AS L-CH
SWITCHING Q504
J151-1 LINE IN L
RV151-1 MIC LEVEL
RESET
DADT BCK LRCK
X MUTE
CS1
DB0 DB1 DB2 DB3
AO AI
RD WR CS0
DIGITAL PEAK LEVEL METER IC702
S702 - 740
REMOTE CONTROL RECEIVER IC704
RMC
ADO AD7
DISPLAY CONTROL IC701
GRID DRIVE Q701, 702, 707, 708
1G 2G 7G 8G
3G 6G
FLUORESCENT INDICATOR TUBE FL701
a i X
BUSY XDI XDO SCK CE
RAM IC703
XTEST
INT SC SO SI ACK
XDISPSL DISP CK DISP DAIN DISP DAO DISP SYNC
5V
IC431 MUTE SWITCH
MODE I
L MUTE
LVL SYNC
MECHANISM CONTROL IC312
X TEST
CPWM
CAPDIRRVS
CFG
CAPSTAN MOTOR DRIVE IC314
CAPSTAN MOTOR DRIVE IC316, Q302
M902 U-17A CAPSTAN MOTOR
FG AMP IC101
IC315
PWMR
REEL CW
REEL MOTOR DRIVE IC314
REEL MOTOR DRIVE IC316, Q313
M905 U-16B REEL MOTOR
RV305 (FWD TORQUE)
FGT
FGS
FG BUFFER Q11
FG BUFFER Q21
COMPARATOR IC11
T REEL FG SENSOR PH11
S REEL FG SENSOR PH21
DPWM
DRUM ON
DRUM DIR RVS
DPG
DFG
DRUM MOTOR DRIVE IC314
DRUM MOTOR DRIVE IC102A, Q101A, 102A
DRUM ASSY DOU-02A(1/2)
IC101A PG AMP
FG AMP
TLED ON
T END
SLED ON
S END
SENSOR LED DRIVE Q401
SENSOR LED DRIVE Q402
TAPE TOP DET IC317, 318
TAPE END DET IC317, 318
RV303 (END SENSOR(T))
RV304 (END SENSOR(S))
PH901 TAPE TOP DET
PH902 TAPE END DET
LM SW
REC EN
CAS IN
S902 LIMIT
S901-2 REC PROOF
S901-1 CASSETTE IN
PLN ON
PLN KICK
LPL NON
PLUNGER DRIVE Q318 - 321
PLUNGER DRIVE Q317
PM903 REEL MOTOR CONTROL PLUNGER
PM902 LOADING PLUNGER
XRST
RESET

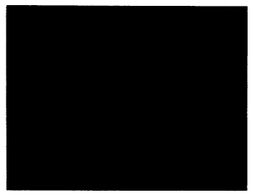

+10V
D913 - 916
+5V (ECC)
+6.6V
+5V
REG IC322
REG IC931
REG IC932
POWER ON/OFF Q921, 925, 931
D901
RESET IC432
RESET IC321
-24V (FL)
REG Q901, 932
D905, 906
AC IN
TO FL TUBE
TO FL TUBE
S701-2 POWER OFF ON
S701-1 POWER OFF ON
POWER ON/OFF Q922
+5V (D/A)
+12V (AUDIO)
+5V (A/D)
-12V (AUDIO)
-5V (A/D)
-5V (D/A)
REG IC507
REG IC523
REG IC524
REG IC508
REG Q902-904, 923
REG Q905-907
D907 - 910
T901 POWER TRANSFORMER
RESET

4-3. WAVEFORMS

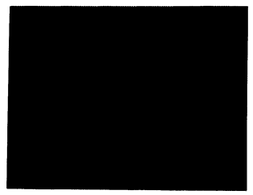
① Q701, Q702 RMITTER



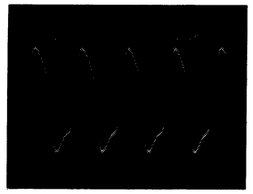
② IC701 ㉑－㉘pin



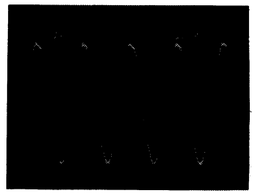
③ IC701 ①－⑳
⑦⓪－⑧⓪pin



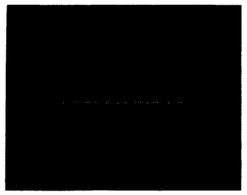
④ IC701 ㉚pin



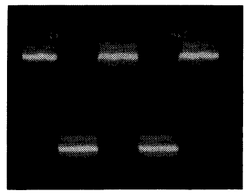
⑤ IC701 ㉛pin



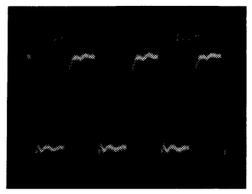
⑥ IC312 ㊱－㊴pin



⑦ IC702 ③pin



⑧ IC702 ②pin



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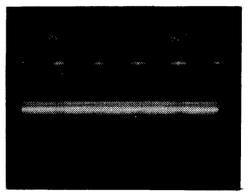
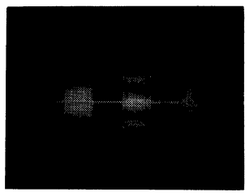
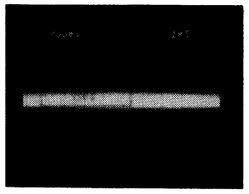


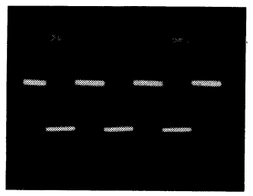
⑩ IC951 ㉕, ㊱pin REC



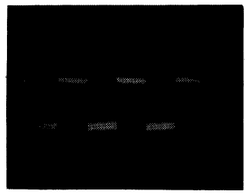
⑪ IC951 ㉕, ㊱pin PLAY



⑫ IC307 ㊷pin REC



⑬ IC311 ⑨pin PLAY



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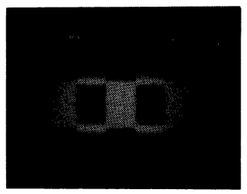

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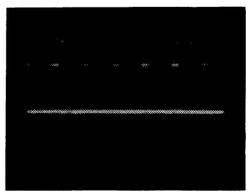
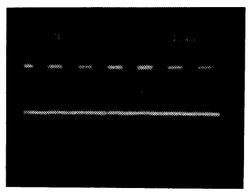


⑯ IC306 ㊾pin



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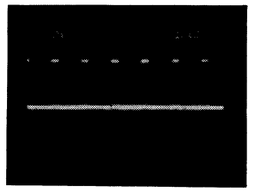

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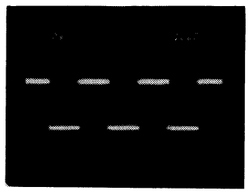
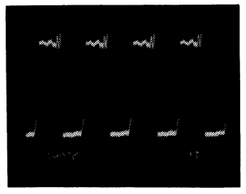
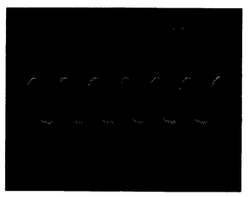


⑲ IC306 ㊶pin



⑳ IC306 ㉘pin XTLI



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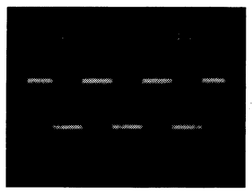

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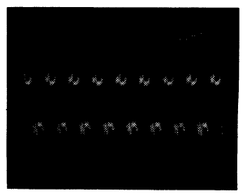

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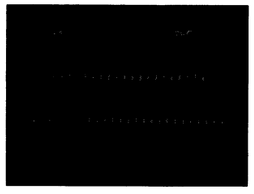

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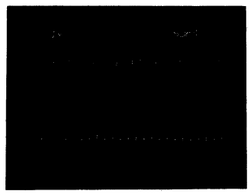
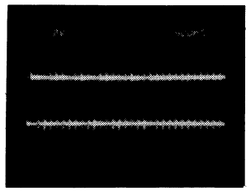


㉕ IC307 ㊹pin



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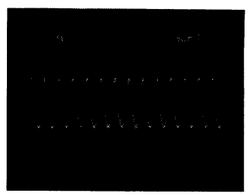

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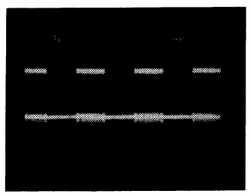

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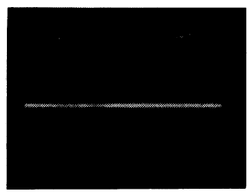

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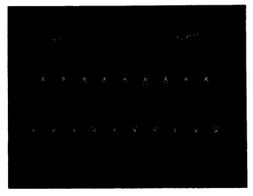

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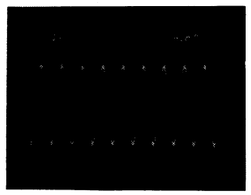
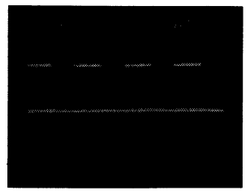


㉛ IC501 ㉖pin BCK



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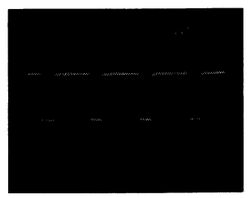
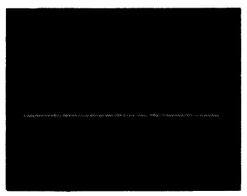
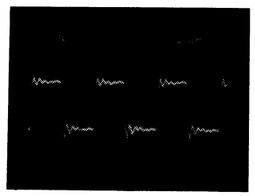


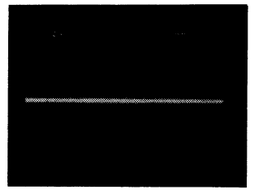
㉝ IC501 ㉓, ㉔pin



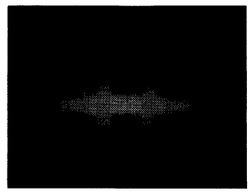
㉞ IC359 ⑳pin



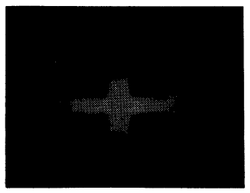
㉟ Q305, 306 COLLECTOR REC



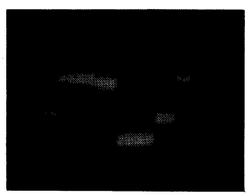
㊱ Q301 EMITTER



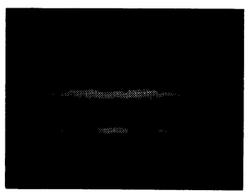
㊲ IC311 ⑤pin PLAY



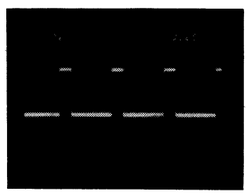
㊳ IC311 ⑧pin PLAY



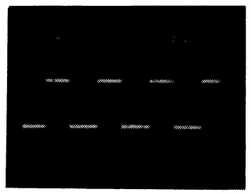
㊴ IC311 ⑲pin PLAY



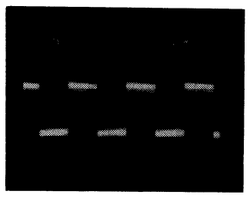
㊵ IC312 ㊺, ㊻pin PLAY



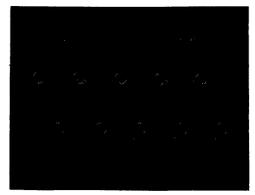
㊶ IC312 ㊹pin PLAY



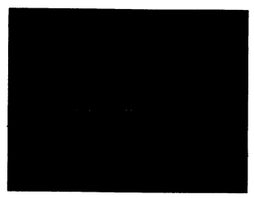
㊷ IC312 ㊿pin PLAY



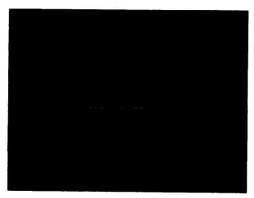
㊸ IC312 ㊺, ㊻pin PLAY



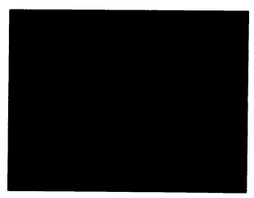
㊹ IC315 ①pin PLAY



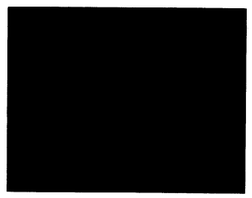
㊺ IC315 ②pin PLAY



㊻ IC315 ⑤pin PLAY

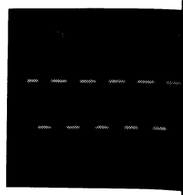


㊼ IC315 ⑥pin PLAY



㊽ IC315 ⑬pin

㊾ IC315 ⑬pin

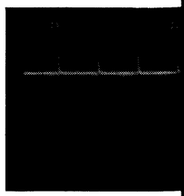


㊿ IC504 ㊴pin

(51) IC504 ⑦pin

(52) IC505 ⑧pin

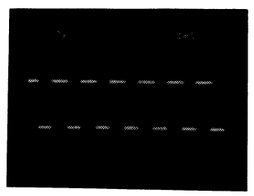
(53) IC505 ①pin



(54) IC502 Source

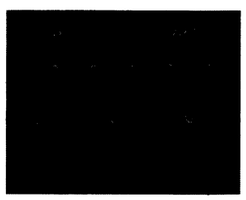
pin

㊾IC315 ⑬pin



⑩pin PLAY

㊿IC504 ㊴pin XIN

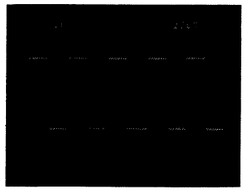


pin PLAY

51IC504 ⑦pin LRCK

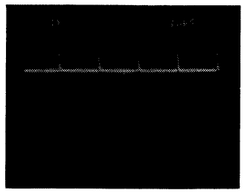
pin PLAY

52IC505 ⑧pin



pin PLAY

53IC505 ①pin



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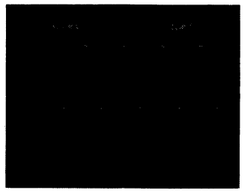
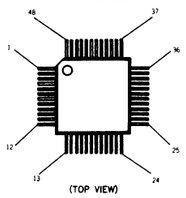
54IC502 Source



4-4. SEMICONDUCTOR LEAD LAYOUT

CXA1045Q



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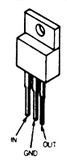
M5F78M08L
M5F7805L-720
μPC2406HF



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HZS6A1L
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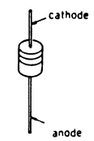

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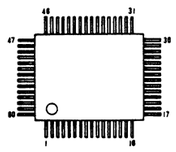

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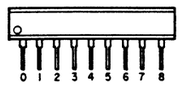

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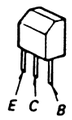

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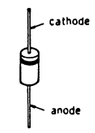

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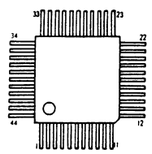
CXD2552Q-2



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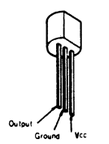
PST529E



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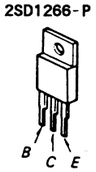

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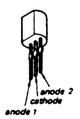

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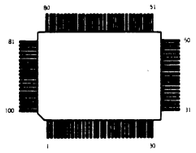

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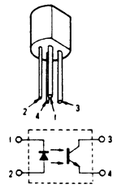

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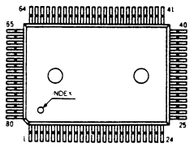

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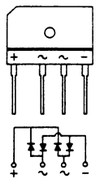
RBV-406H-01



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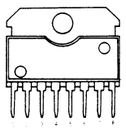

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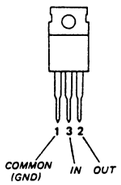

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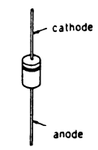
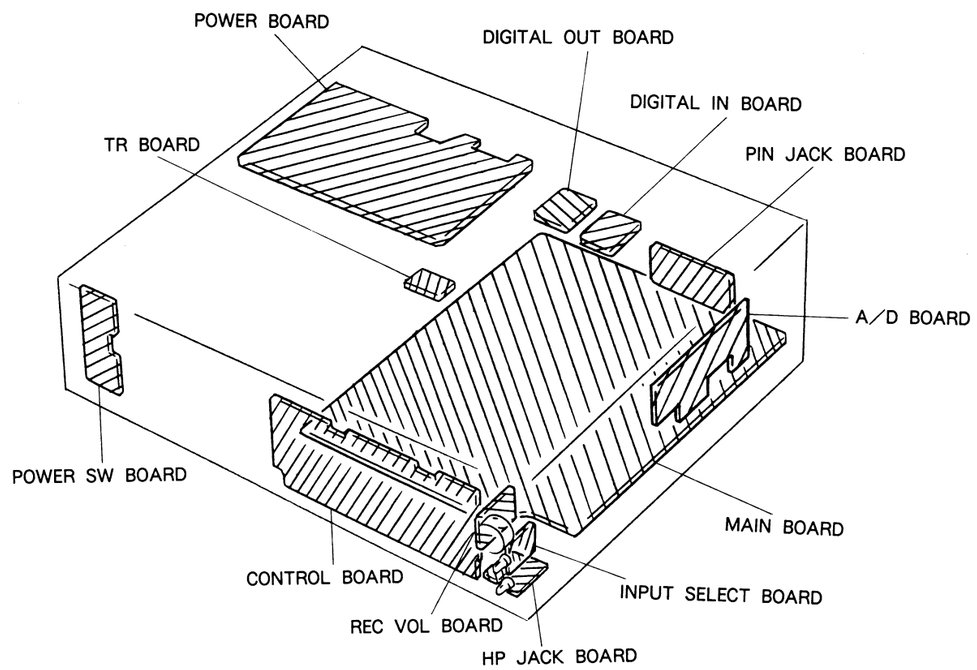
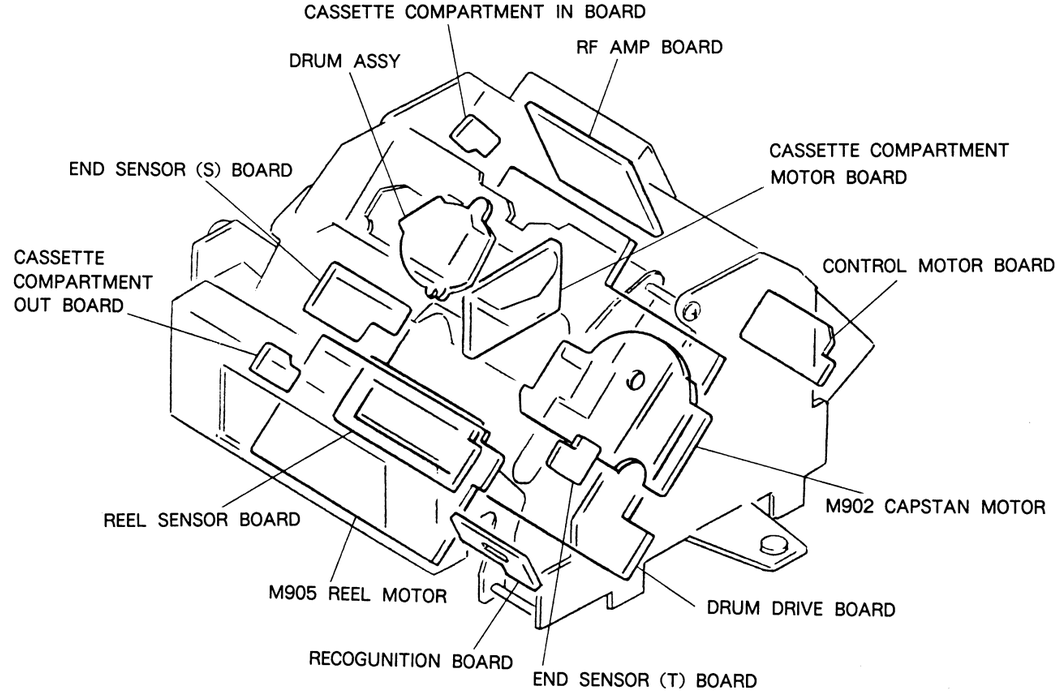
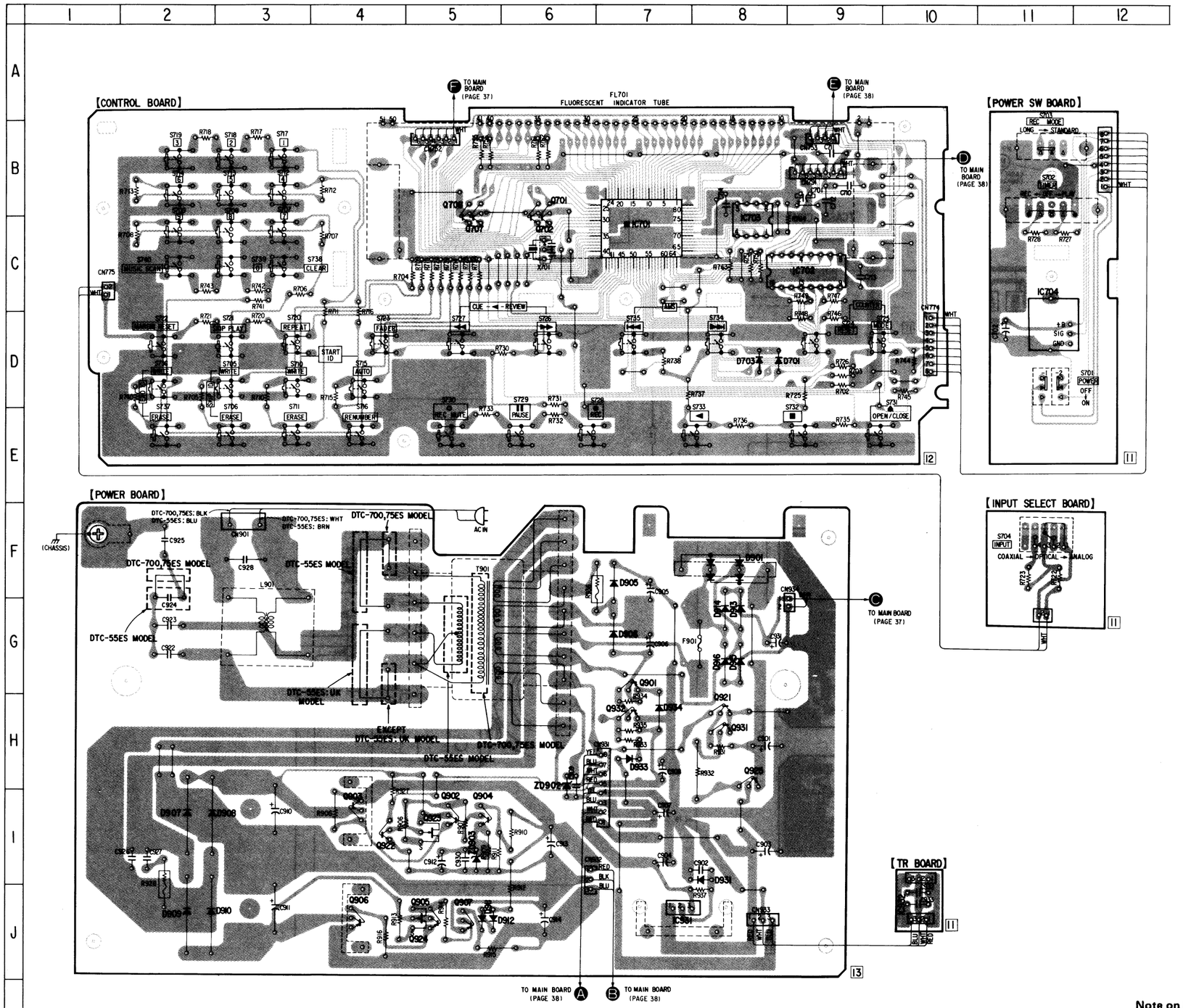


4-5. CIRCUIT BOARDS LOCATION





4-6. PRINTED WIRING BOARDS – POWER SUPPLY/DISPLAY SECTION –



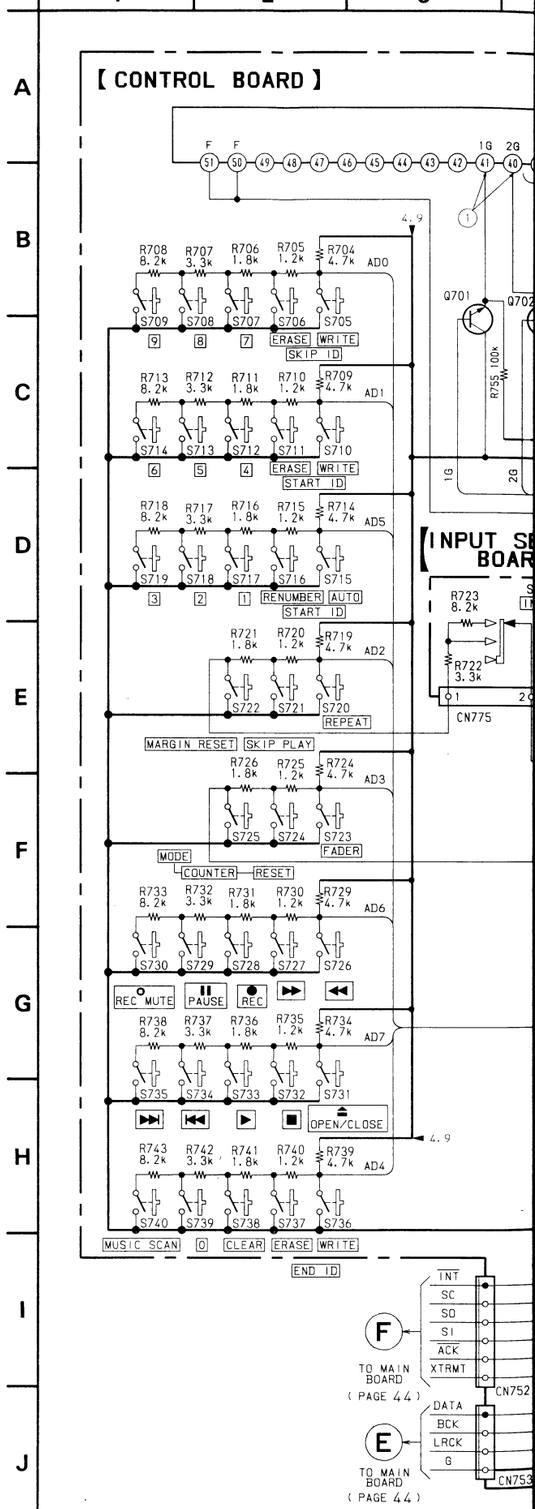
• Semiconductor Location

Ref. No.	Location
D701	D-9
D703	D-8
D901	F-8
D905	F-7
D906	G-7
D907	I-2
D908	I-3
D909	J-2
D910	J-3
D911	J-5
D912	J-6
D913	G-8
D914	G-8
D915	G-8
D916	G-8
D931	I-8
D933	H-7
D934	H-7
IC701	C-7
IC702	C-9
IC703	C-8
IC704	C-11
IC931	J-7
IC932	J-10
Q701	B-6
Q702	C-6
Q707	C-5
Q708	B-5
Q901	G-7
Q902	I-5
Q903	I-4
Q904	I-5
Q905	J-5
Q906	J-4
Q907	J-5
Q921	H-8
Q922	I-4
Q923	I-5
Q924	J-5
Q925	H-8
Q931	H-8
Q932	H-7
ZD902	H-6
ZD903	I-5

Note on Mounting Diagram:

- ○—— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ▒▒ : Pattern on the side which is seen.

4-7. SCHEMATIC DIAGRAM – POWER SUPPLY/DISPLA

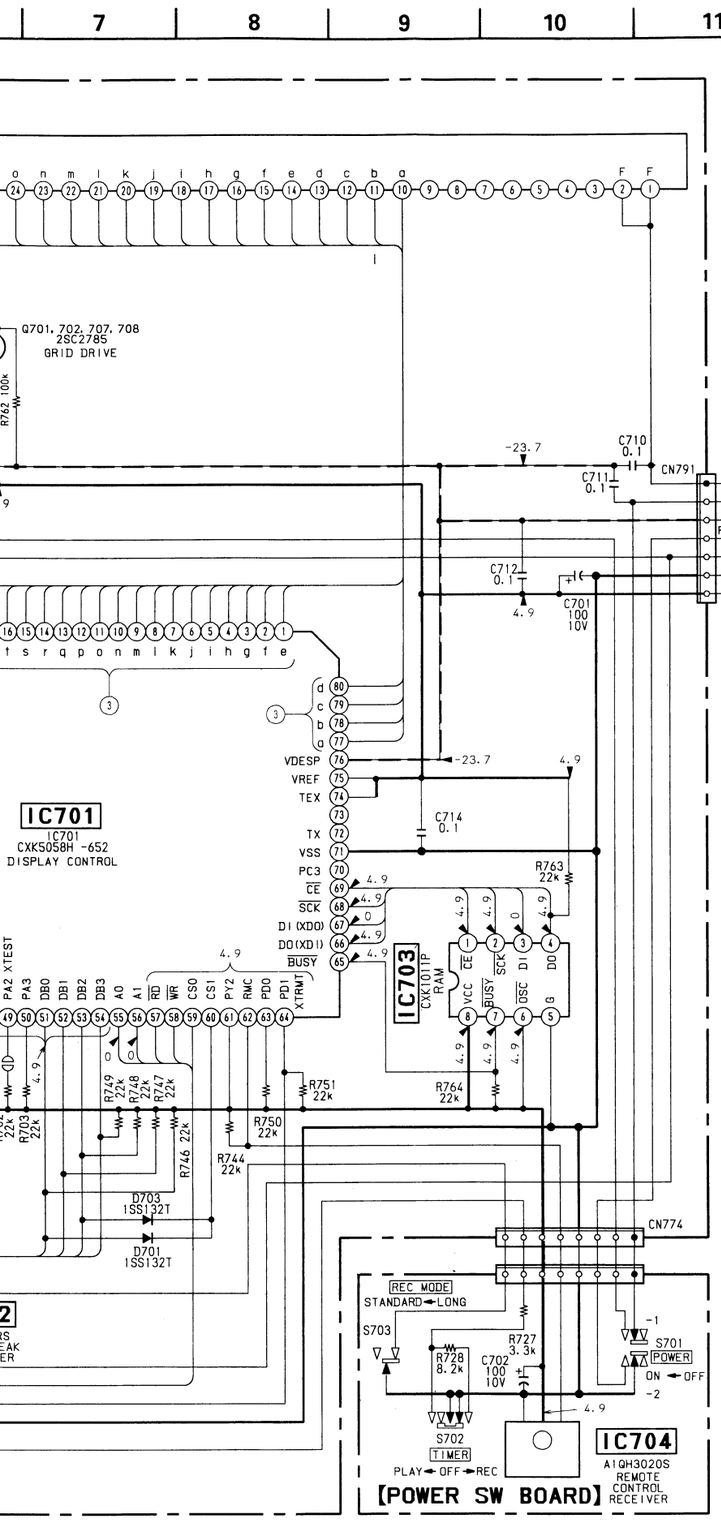


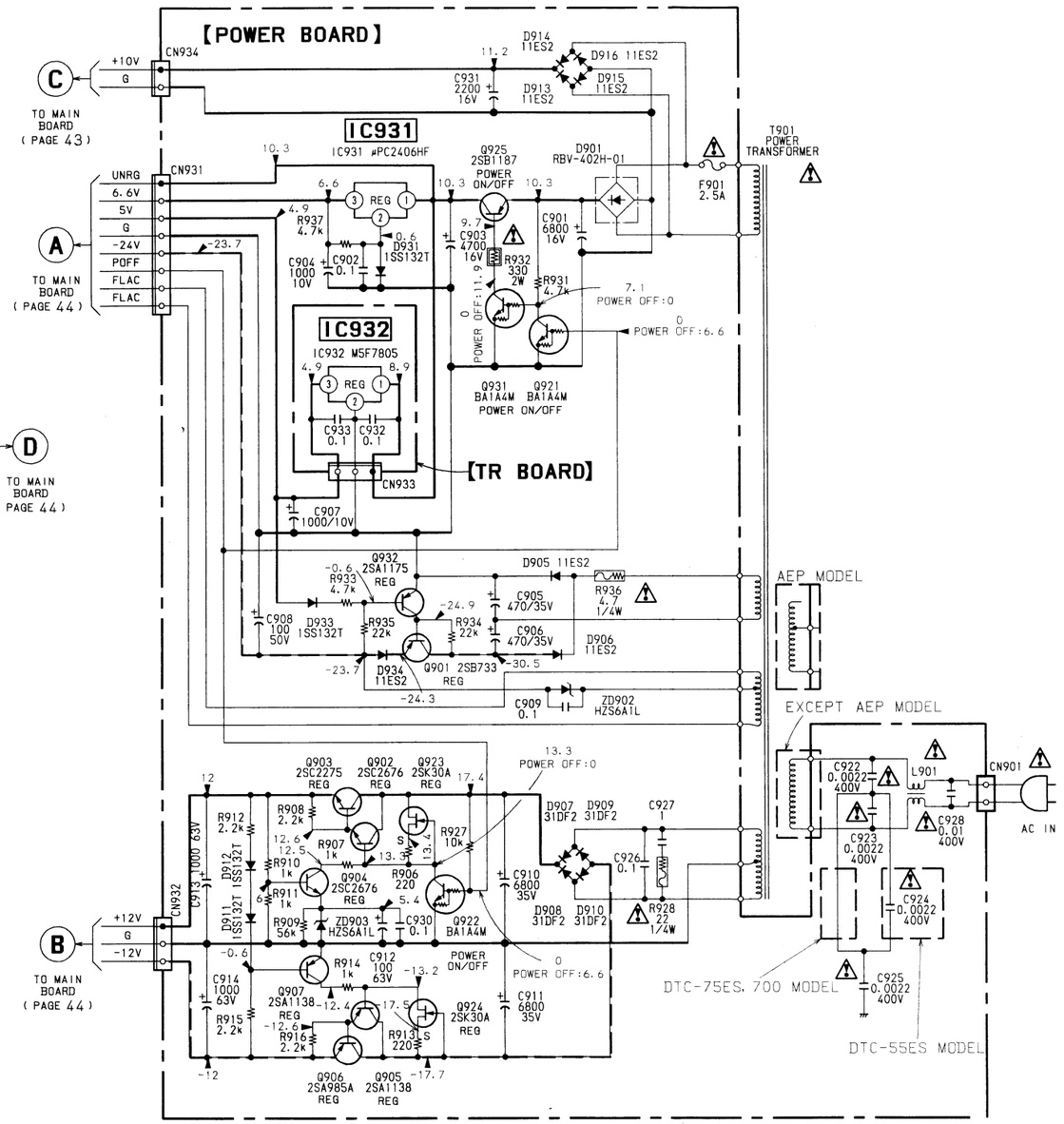
4-7. SCHEMATIC DIAGRAM – POWER SUPPLY/DISPLAY SECTION –

Semiconductor Location

Ref. No.	Location
D701	D-9
D703	D-8
D901	F-8
D905	F-7
D906	G-7
D907	I-2
D908	I-3
D909	J-2
D910	J-3
D911	J-5
D912	J-6
D913	G-8
D914	G-8
D915	G-8
D916	G-8
D931	I-8
D933	H-7
D934	H-7
IC701	C-7
IC702	C-9
IC703	C-8
IC704	C-11
IC931	J-7
IC932	J-10
Q701	B-6
Q702	C-6
Q707	C-5
Q708	B-5
Q901	G-7
Q902	I-5
Q903	I-4
Q904	I-5
Q905	J-5
Q906	J-4
Q907	J-5
Q921	H-8
Q922	I-4
Q923	I-5
Q924	J-5
Q925	H-8
Q931	H-8
Q932	H-7
ZD902	H-6
ZD903	I-5

ram:
ted from the component side.
ted on the conductor side.
the side which is seen.





Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬▬ : B+ Line
- ▬ ▬ : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

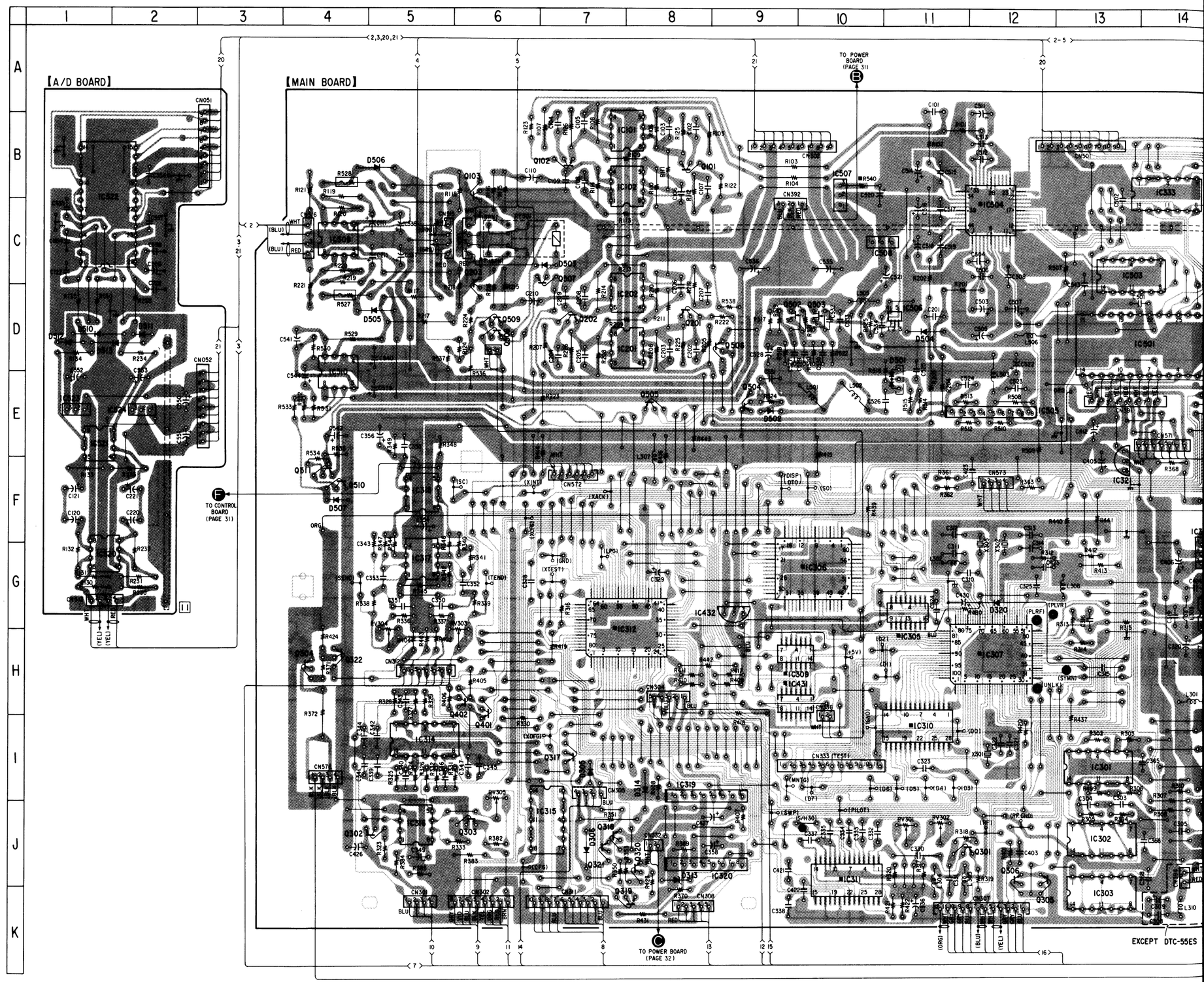
4-8. PRINTED WIRING BOARDS – MAIN SECTION –

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D305	I-7	IC505	E-12
D306	J-7	IC506	D-11
D313	J-8	IC507	B-10
D314	I-8	IC508	C-10
D320	G-12	IC509	C-4
D501	D-11	IC510	E-4
D502	E-9	IC520	G-1
D503	C-7	IC521	E-1
D504	D-11	IC522	B-1
D505	D-5	IC523	E-1
D506	B-5	IC524	E-2
D507	F-4	IC951	I-27
D510	D-1		
D511	D-2	PH11	J-23
D512	D-1	PH21	J-24
D513	D-1	PH901	G-21
		PH902	J-22
IC11	J-23		
IC101A	C-22	Q11	I-23
IC101	B-7	Q21	J-23
IC102A	B-22	Q101A	B-23
IC102	B-7	Q101	B-8
IC201	D-8	Q102A	C-23
IC202	D-8	Q102	B-7
IC301	I-13	Q103	B-6
IC302	J-13	Q201	D-8
IC303	K-13	Q202	D-7
IC304	J-15	Q203	C-6
IC305	H-11	Q301	J-12
IC306	G-10	Q302	J-4
IC307	H-12	Q303	J-6
IC308	G-15	Q304	H-4
IC309	H-10	Q305	K-12
IC310	I-11	Q306	J-12
IC311	J-10	Q317	I-7
IC312	G-8	Q318	J-7
IC314	I-5	Q319	K-8
IC315	J-7	Q320	J-8
IC316	J-5	Q321	J-7
IC317	G-5	Q322	H-4
IC318	F-5	Q401	I-6
IC319	I-8	Q402	I-6
IC320	J-9	Q502	D-9
IC321	F-13	Q503	D-10
IC322	F-14	Q504	E-9
IC331	H-15	Q505	E-8
IC332	I-15	Q506	D-9
IC333	B-14	Q507	C-7
IC431	H-10	Q508	D-6
IC432	G-8	Q509	D-6
IC501	D-14	Q510	F-4
IC503	C-13	Q511	F-4
IC504	C-12		

Note on Mounting Diagram:

- ○—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ○—○ : Jumper wire connected to the ground pattern on the component side.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.



TO POWER BOARD (PAGE 31) B

A TO POWER BOARD (PAGE 31)

D TO CONTROL BOARD (PAGE 32)

E TO CONTROL BOARD (PAGE 31)

DIGITAL IN OPTICAL

DIGITAL OUT OPTICAL

EXCEPT DTC-55ES MODEL

【PIN JACK BOARD】

【REC VOL BOARD】

【HP VOL BOARD】

【HP JACK BOARD】

【DIGITAL IN BOARD】

【DIGITAL OUT BOARD】

EXCEPT DTC-55ES MODEL

【DRUM DRIVE BOARD】

【END SENSOR(T) BOARD】

【RECOGUNITION BOARD】

S901-1 CASSETTE IN

S901-2 REC PROOF

【END SENSOR(S) BOARD】

【CASSE-COM MOTOR BOARD】

【CASSE-COM IN BOARD】

【CASSE-COM OUT BOARD】

【CONTROL MOTOR BOARD】

【REEL SENSOR BOARD】

【RF AMP BOARD】(CONDUCTOR SIDE)

【RF AMP BOARD】(COMPONENT SIDE)

【DRUM DRIVE BOARD】

【CASSE-COM MOTOR BOARD】

【CASSE-COM IN BOARD】

【CASSE-COM OUT BOARD】

MECHANISM ASSY TOP VIEW

【HP JACK BOARD】

EXCEPT DTC-55ES MODEL

【END SENSOR(T) BOARD】

【RECOGUNITION BOARD】

【END SENSOR(S) BOARD】

【CONTROL MOTOR BOARD】

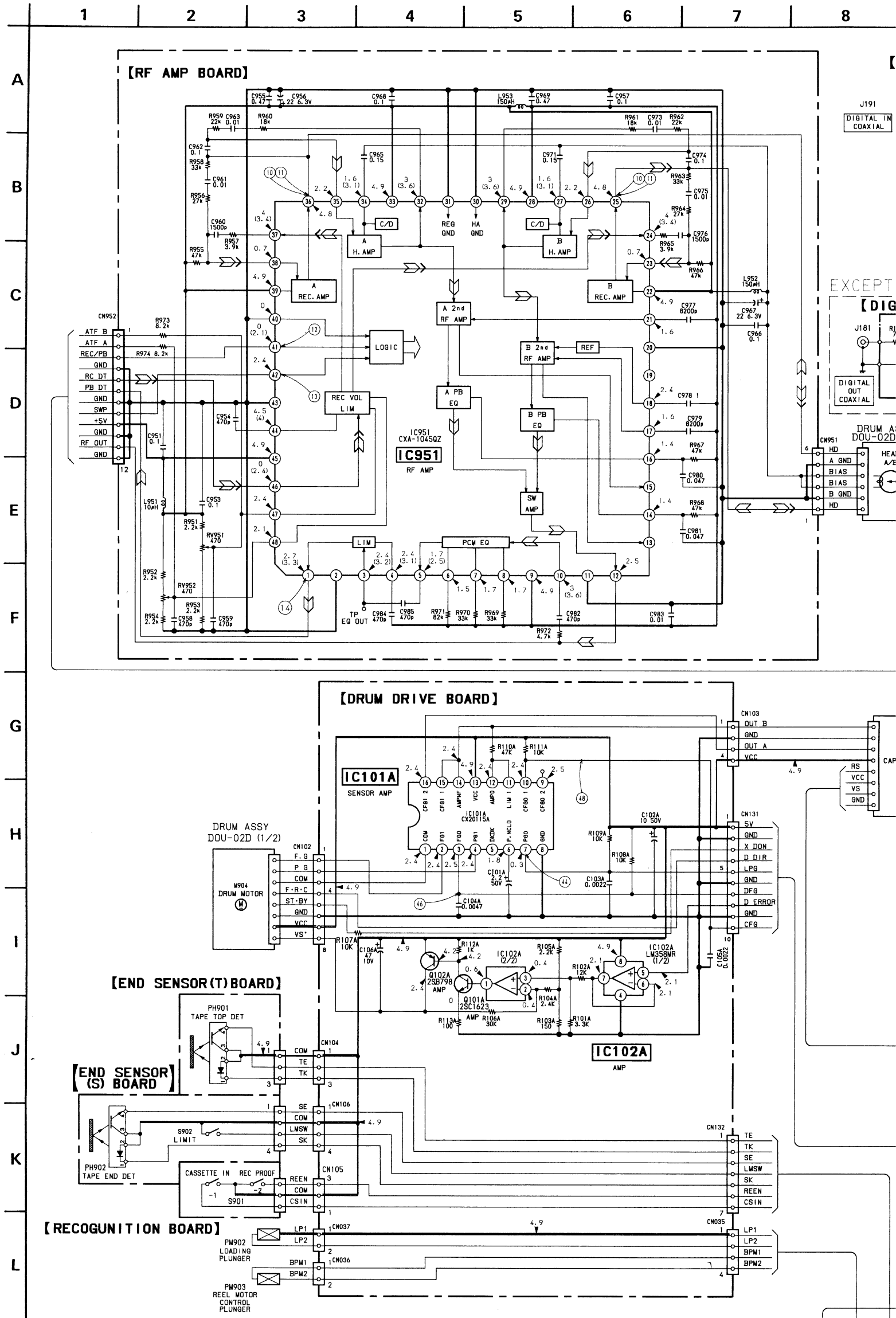
【REEL SENSOR BOARD】

【RF AMP BOARD】(CONDUCTOR SIDE)

【RF AMP BOARD】(COMPONENT SIDE)

MECHANISM ASSY BOTTOM VIEW

4-9. SCHEMATIC DIAGRAM – MAIN SECTION –



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- ⏦ : fusible resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬▬ : B+ Line
- ▬ ▬ : B– Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
  ( ) : PLAY
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ▷ : PB
  ▷» : REC

【DIGITAL IN BOARD】

【DIGITAL OUT BOARD】

XCEPT DTC-55ES MODEL

【MAIN BOARD】

IC301 SN74HC04N BUFFER

IC302 TC74HC132AP OPTICAL/COAXIAL SWITCH

IC303 SN74HC04N BUFFER

IC304 LM358P AMP

IC305 SN74HC153NS MULTIPLEXER

IC306 CXD1136Q DIGITAL FILTER

IC307 CXD2601Q ERROR CORECTION, A/D D/A INTERFACE, MODURATION, DEMODURATION, SUB-CODE DECODE

IC309 SN74HC74NS D-FLIP FLOP

IC310 CXK58257M-12L RAM

IC311 CXA1046M ATF

IC312 CXP80524-012Q MECHANISM CONTROL

IC314 LM324N MOTOR DRIVE

IC315 SN74HC14N INVERTING SCHMITT TRIGER

IC316 LM358P MOTOR DRIVE

IC317 LM393P TAPE TOP/END DET

IC318 LM358P

IC319 MB3763PS CONTROL MORTOR DRIVE

IC322 M5F78M05

J191 DIGITAL IN COAXIAL

IC331 GP1F31R DIGITAL IN OPTICAL

IC332 GP1F31T DIGITAL OUT OPTICAL

J181 DIGITAL OUT COAXIAL

CN393 2P (D IN, G)

CN394 2P (D OUT, G)

CN333 11P TEST (SWP, MNTG, D7, D6, D5, D4, D3, D2, D1, D0, G)

CN307 12P (ATFB, ATFA, REPB, G, REDT, PBDT, G, SWP, +5V, G, PBRF, G)

CN301 4P (G, CERR, +5V, CDIR)

CN311 10P (+5V, G, XDON, DDIR, LPG, G, DFG, DERR, G, CFG)

CN302 8P (RERR, +5V, G, CW, +5V, FGS, FGT, G)

CN312 7P (TE, TK, SE, LMSW, SK, REEN, CSIN)

CN391 8P (UNREG, 6.6V, +5V, G, -24V)

CN576 4P (G, LAMP+, G, LAMP+)

CN305 4P (LP1, LP2, BPW1, BPW2)

CN332 2P (+10V, G)

CN304 5P (LM+, LM-, STP, FWD, +5V)

W902 U-17A CAPSTAN MOTOR (RS, VCC, VS, GND)

M905 U-16B REEL MOTOR

DRUM ASSY DOU-02D (1/2) (GND, AS, AS, GND, HEAD A/B)

Q305 BA1A4M BUFFER

Q306 BA1A4M BUFFER

Q301 2SC2785 RF AMP

Q302 2SD1387 CAPSTAN MOTOR DRIVE

Q303 2SD1266 REEL MOTOR DRIVE

Q401 2SC2785 SENSOR LED DRIVE

Q402 2SC2785

Q304 2SB1013 LAMP DRIVE

Q317 BA1A4M PLUNGER DRIVE

Q318 BA1A4M

Q319 BA1A4M

Q320 2SB1013

Q321 2SD1387

Q322 BA1A4M LAMP SWITCH

D320 1SS132T

D305 1SS132T

D314 11ES2

D306 11ES2

D313 HZ4CLL

PL302

PL301

TO POWER BOARD (PAGE34)

【CONTROL MOTOR BOARD】

M903 CONTROL MOTOR

CN034

MAIN BOARD】

A TO POWER BOARD (PAGE34)
D TO CONTROL BOARD (PAGE34)
E TO CONTROL BOARD (PAGE33)
B TO POWER BOARD (PAGE34)

CN391 8P: UNREG, 6.6V, +5V, G, -24V, POFF, FL, FL
CN571 7P: +5V, G, XRST, POFF, -24V, FL, FL
CN573 4P: DADT, BCK, LRCK, G
CN392 3P: +12V, G, -12V

IC322 M5F78M05 REG
IC333 SN74HCU04N BUFFER
IC501 SM5813APT DIGITAL FILTER
IC303 BUFFER
IC504 D/A CONVERTER
IC307 CXD2601Q ERROR CORECTION. A/D D/A INTERFACE. MODURATION. DEMODURATION. SUB-CODE DECODE
IC308 SN74LS624N VCO
IC503 SN74HC393N COUNTER
IC505 TC5081AP PHASE COMPARATOR
IC506 SC7SU04F BUFFER
IC508 M5F78M08 REG
IC507 M5F78M05 REG
IC312 CXP80524-012Q MECHANISM CONTROL
IC432 PST529C RESET
IC321 PST529E RESET
IC101 NE5532P (1/2) AUDIO AMP
IC102 NE5532P (1/2) AUDIO AMP
IC201 NE5532P (2/2) AUDIO AMP
IC202 NE5532P (2/2) AUDIO AMP
IC319 MB3763PS CONTROL MORTOR DRIVE
IC320 M54641L CASSETTE COMPARTMENT MORTOR DRIVE
IC431 SN74HC10NS MUTE SWITCH
IC510 RC4558P MIX AMP
IC509 HAEDPHONE AMP

Q504 BN1A4M SWITCHING
Q505, 506 EMPHASIS SWITCH
Q509 BN1A4M
Q103 2SC3623A MUTING
Q203 2SC3623A MUTING
Q507 BA1A4M RELAY DRIVE
Q508, 509 MUTE SWITCH
Q510, 511 METER AMP
Q320 2SB1013
Q318 BA1A4M
Q319 BA1A4M
Q321 2SD1387

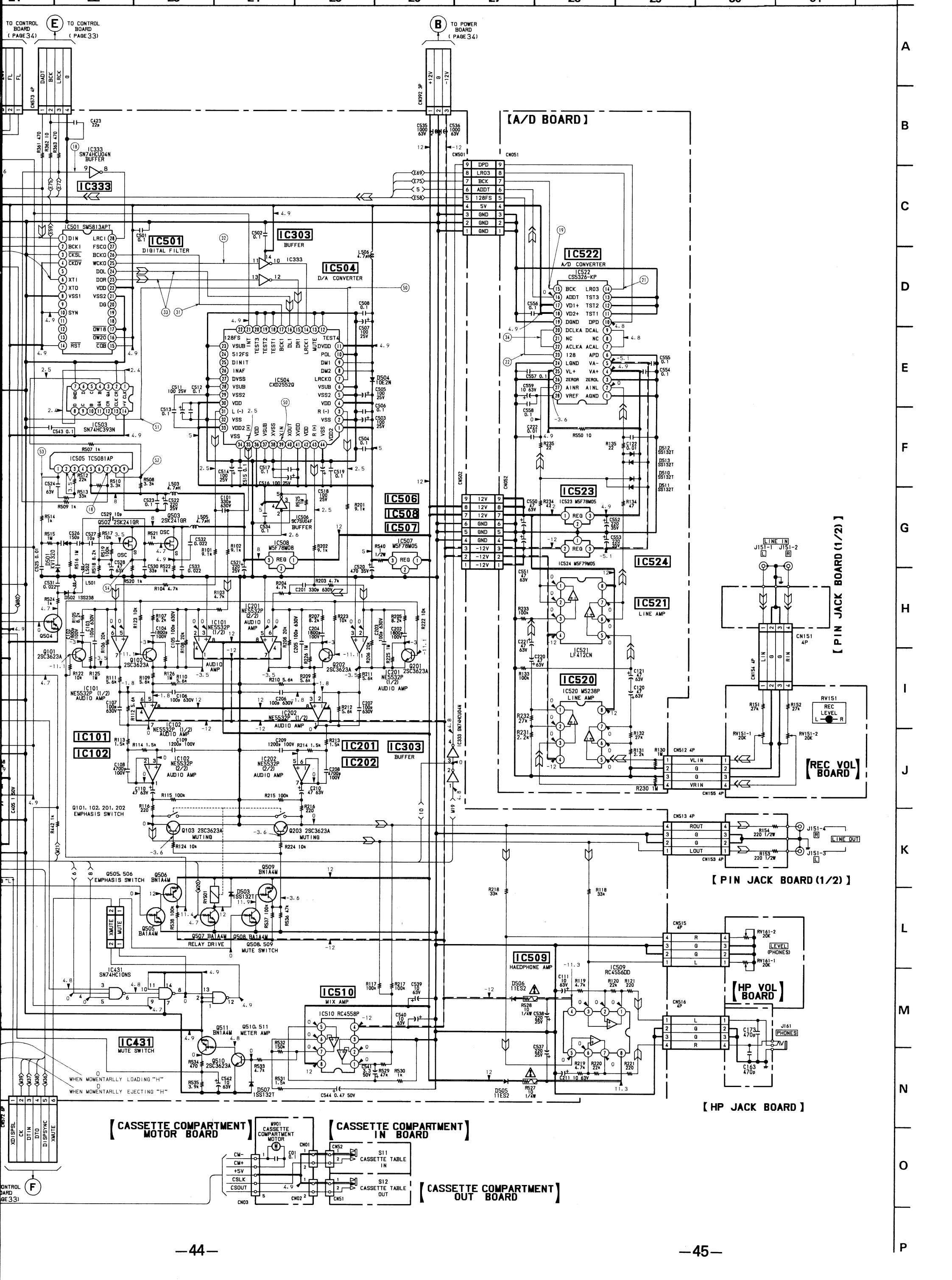
Q101, 102, 201, 202 EMPHASIS SWITCH

CN305 4P: LP1, LP2, BPW1, BPW2
CN332 2P: +10V, G
CN304 5P: LM+, LM-, STP, FWD, +5V
CN308 5P: CSOUT, CSLK, +5V, CM+, CM-
CN572 6P: XDISPSL, CK, DTIN, DTO, DISPSYNC, XMUTE
CN034

【CONTROL MOTOR BOARD】
M903 CONTROL MOTOR
PM901 ROTARY ENCODER
PL301
TO POWER BOARD (PAGE34) C
TO CONTROL BOARD (PAGE33) F

【CASSETTE COMPARTMENT MOTOR BOARD】
M901 CASSETTE COMPARTMENT MOTOR
CM-, CM+, +5V, CSLK, CSOUT
CN03, CN01, CN02
【CASSETTE COMPARTMENT IN BOARD】
CN52, CN51
S11 CASSETTE TABLE IN
S12 CASSETTE TABLE OUT
【CASSETTE COMPARTMENT OUT BOARD】

【A/D BOARD】
CN051: DPD, LRO3, BCK, ADDT, 128FS, 5V, GND, GND, GND
CN501
CN502: 12V, 12V, 12V, GND, GND, GND, -12V, -12V, -12V
CN052


21
22
23
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31
A
B
C
D
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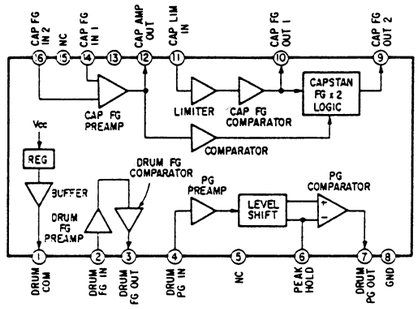
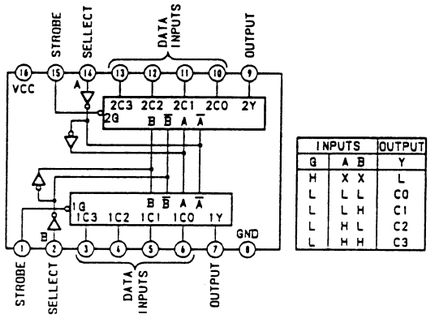
G
H
I
J
K
L
M
N
O
P
TO CONTROL BOARD (PAGE34)
E
TO CONTROL BOARD (PAGE33)
B
TO POWER BOARD (PAGE34)
CN573 4P
DADT
BCK
LRCK
G
FL
FL
CN392 3P
+12V
G
-12V
【A/D BOARD】
CN501
CN051
DPD
LRO3
BCK
ADDT
128FS
5V
GND
GND
GND
IC333
SN74HCU04N
BUFFER
IC501 SM5813APT
DIGITAL FILTER
IC303
BUFFER
IC504
D/A CONVERTER
CXD2552Q
IC503
SN74HC393N
IC505 TC5081AP
IC506
IC508
IC507
IC506 9C7SU04F
BUFFER
IC508 M5F78M08
REG
IC507 M5F78M05
REG
Q502 2SK241GR
Q503 2SK241GR
OSC
IC522
A/D CONVERTER
IC522 CS5326-KP
IC523
IC523 M5F78M05
REG
IC524
IC524 M5F79M05
REG
IC521
LINE AMP
IC521 LF412CN
IC520
IC520 M5238P
LINE AMP
IC101
IC102
IC201
IC202
IC303
BUFFER
IC101 NE5532P (1/2) AUDIO AMP
IC102 NE5532P (1/2) AUDIO AMP
IC201 NE5532P (2/2) AUDIO AMP
IC202 NE5532P (2/2) AUDIO AMP
Q101 2SC3623A
Q102 2SC3623A
Q202 2SC3623A
Q201 2SC3623A
Q101, 102, 201, 202 EMPHASIS SWITCH
Q103 2SC3623A MUTING
Q203 2SC3623A MUTING
Q505, 506 EMPHASIS SWITCH
Q505 BA1A4M
Q506 BN1A4M
Q507 BA1A4M RELAY DRIVE
Q508, 509 BA1A4M MUTE SWITCH
Q509 BN1A4M
RY501
D503 1SS132T
XMUTE
MUTE
IC431
SN74HC10NS
MUTE SWITCH
IC431
IC510
MIX AMP
IC510 RC4558P
Q511 BN1A4M
Q510, 511 METER AMP
Q510 2SC3623A
D507 1SS132T
IC509
HAEDPHONE AMP
IC509 RC4556DD
D506 11ES2
D505 11ES2
D512 SS132T
D513 SS132T
D510 SS132T
D511 SS132T
D504 10E2N
D502 1SS238
WHEN MOMENTARLLY LOADING "H"
WHEN MOMENTARLLY EJECTING "H"
【PIN JACK BOARD(1/2)】
LINE IN
J151-1
J151-2
CN154 4P
CN151 4P
RV151
REC LEVEL
【REC VOL BOARD】
CN512 4P
VLIN
G
G
VRIN
CN155 4P
CN513 4P
ROUT
G
G
LOUT
CN153 4P
J151-4
J151-3
LINE OUT
【PIN JACK BOARD(1/2)】
CN515 4P
CN516 4P
RV161-2 20K
RV161-1 20K
LEVEL (PHONES)
【HP VOL BOARD】
J161
PHONES
【HP JACK BOARD】
CN572 8P
XDISPSL
CK
DTIN
DTO
DISPSYNC
XMUTE
CONTROL BOARD (PAGE33)
【CASSETTE COMPARTMENT MOTOR BOARD】
M901 CASSETTE COMPARTMENT MOTOR
CM-
CM+
+5V
CSLK
CSOUT
CN03
CN02
CN01
【CASSETTE COMPARTMENT IN BOARD】
S11 CASSETTE TABLE IN
S12 CASSETTE TABLE OUT
CN52
CN51
【CASSETTE COMPARTMENT OUT BOARD】

4-10. IC BLOCK DIAGRAM

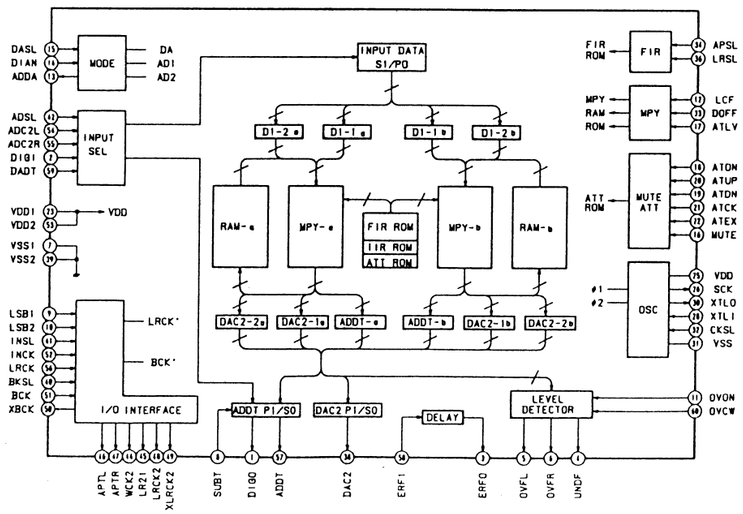
IC101 CX20115A



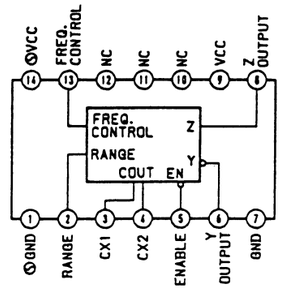
IC305 SN74HC153NS



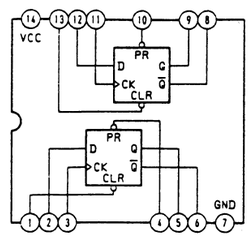
IC306 CXD1136Q



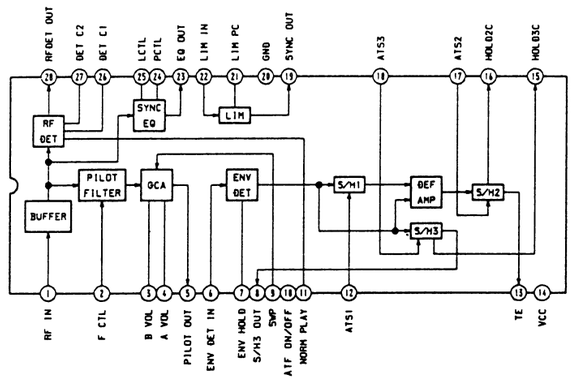
IC308 SN74LS624N



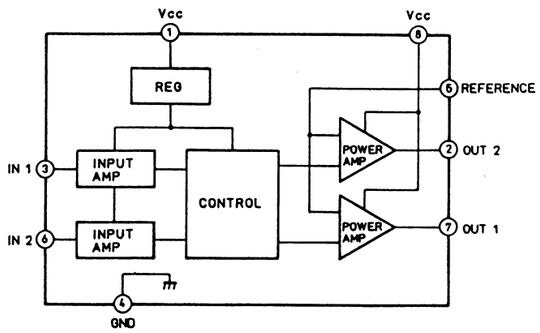
IC309 SN74HC74NS



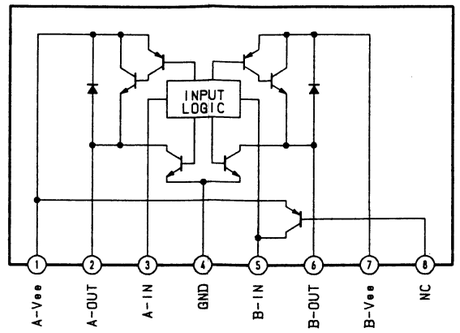
IC311 CXA1046M



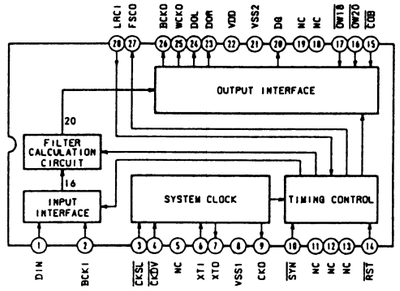
IC320 M54641L



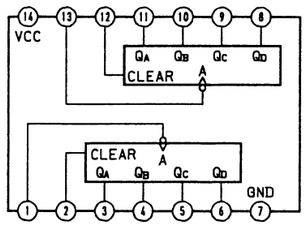
IC319 MB3763PS



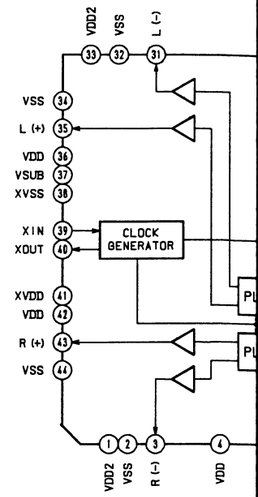
IC501 SM5813ATP



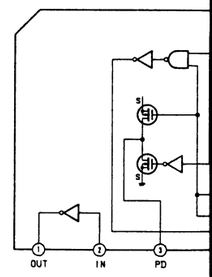
IC503 SN74HC393N



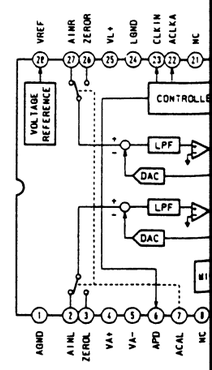
IC504 CXD2552

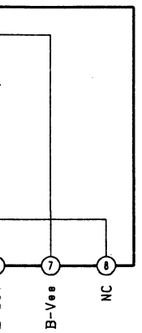


IC505 TC5081AP

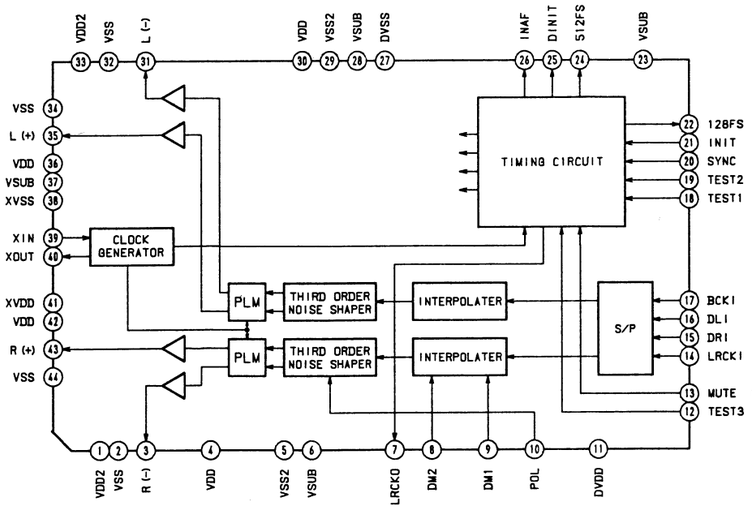


IC522 CS5326-KP

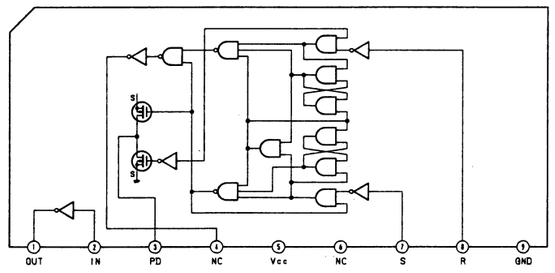




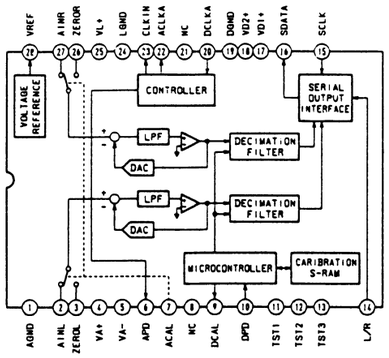
IC504 CXD2552



IC505 TC5081AP



IC522 CS5326-KP



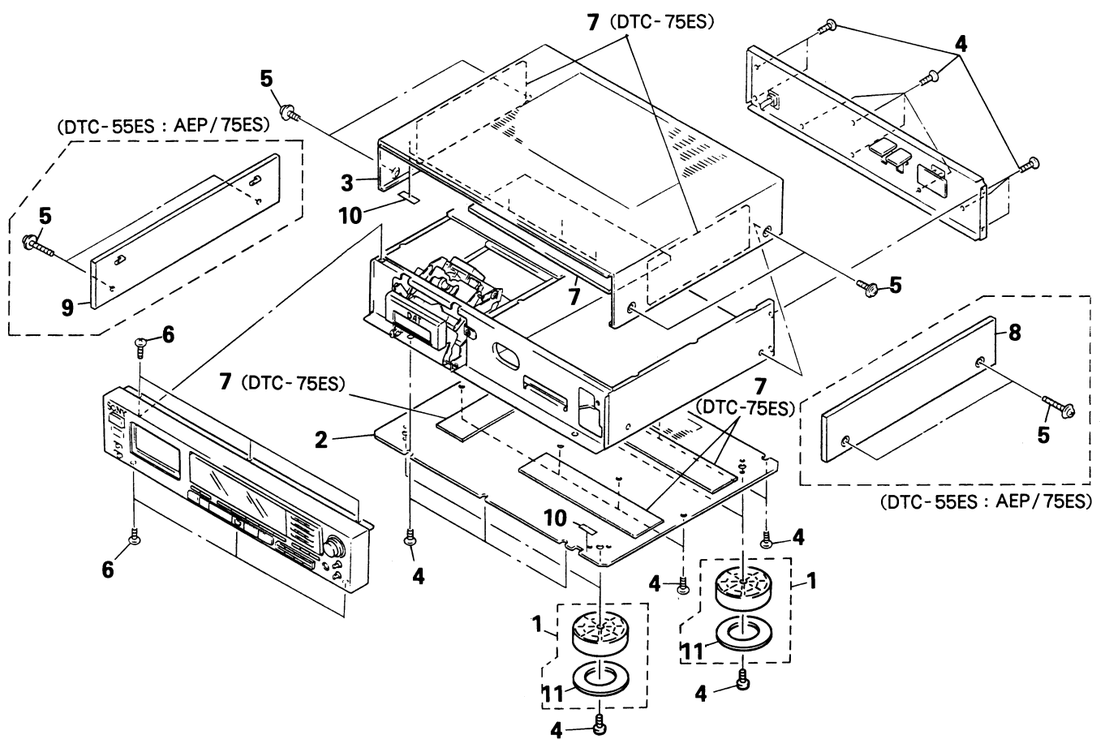
SECTION 5
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

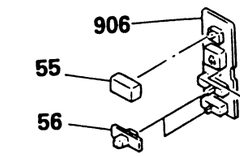
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifé.

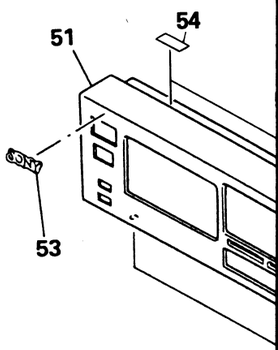
5-1. CABINET SECTION



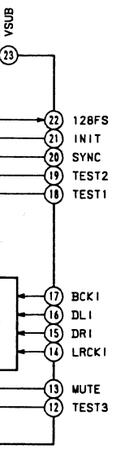
No.	Part No.	Description	Remarks
1	X-3304-938-2	FOOT ASSY	
2	*4-931-433-11	PLATE, BOTTOM	
3	3-350-407-41	CASE	
4	7-682-548-09	SCREW +BVTT 3X8 (S)	
5	3-704-366-01	(55ES:UK/700)....SCREW (CASE) (M3X8)	
	4-933-446-01	(55ES:AEP/75ES)...SCREW (SIDE PANEL)	
6	7-682-547-09	SCREW +B 3X6	
7	*4-936-612-01	RUBBER (DAMPER)	
8	*X-4919-028-1	(55ES:AEP/75ES)...PANEL (R) ASSY, SIDE	
9	*X-4919-027-1	(55ES:AEP/75ES)...PANEL (L) ASSY, SIDE	
10	3-831-441-XX	CUSHION, SPEAKER	
11	4-923-836-11	CUSHION	

5-2. FRONT PANEL SECTIO





No.	Part No.	Description
51	4-936-605-11	(700).....
	4-936-605-21	(55ES:AEP).
	4-936-605-31	(55ES:UK)..
	4-936-605-41	(75ES).....
52	3-332-590-01	KNOB (REC V
53	4-908-848-01	EMBLEM, SON
54	3-831-441-XX	CUSHION, SP
55	4-922-921-01	BUTTON (POW
56	4-931-421-01	KNOB (T & S
57	4-931-482-01	WINDOW (FL
58	*4-925-758-11	COVER (L),
59	X-4919-024-1	ESCUTCHEON
60	4-923-782-21	BUTTON (10
61	4-931-483-01	PLATE (HP V



SECTION 5
EXPLODED VIEWS

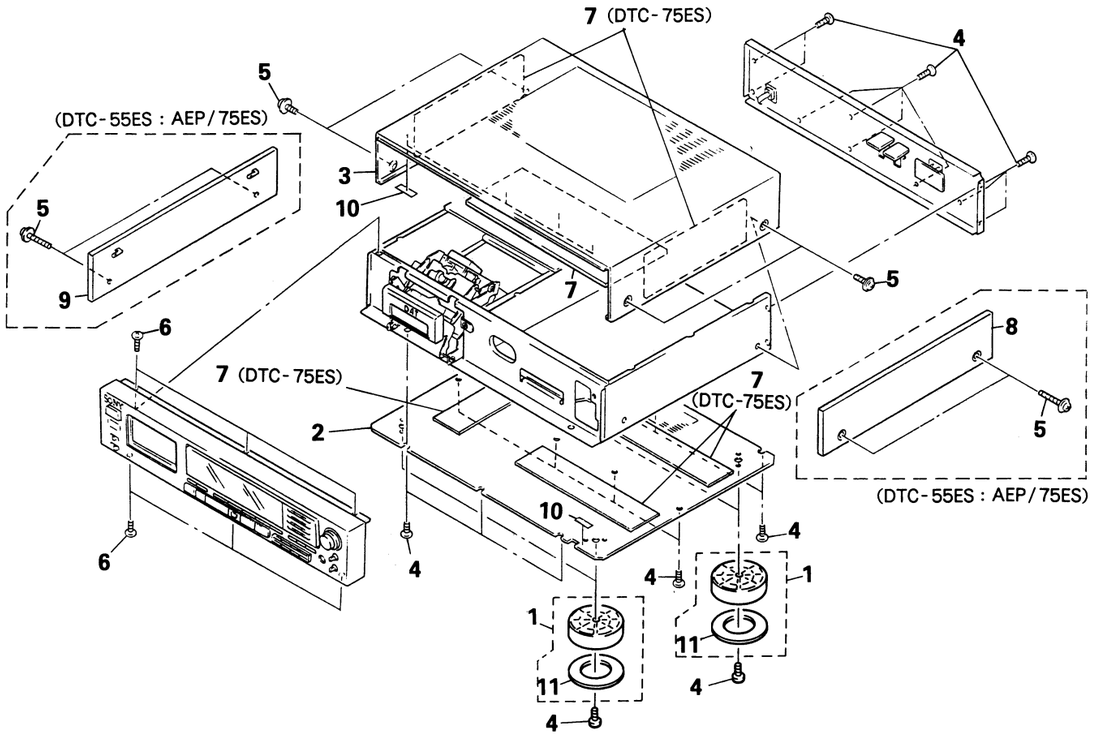
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

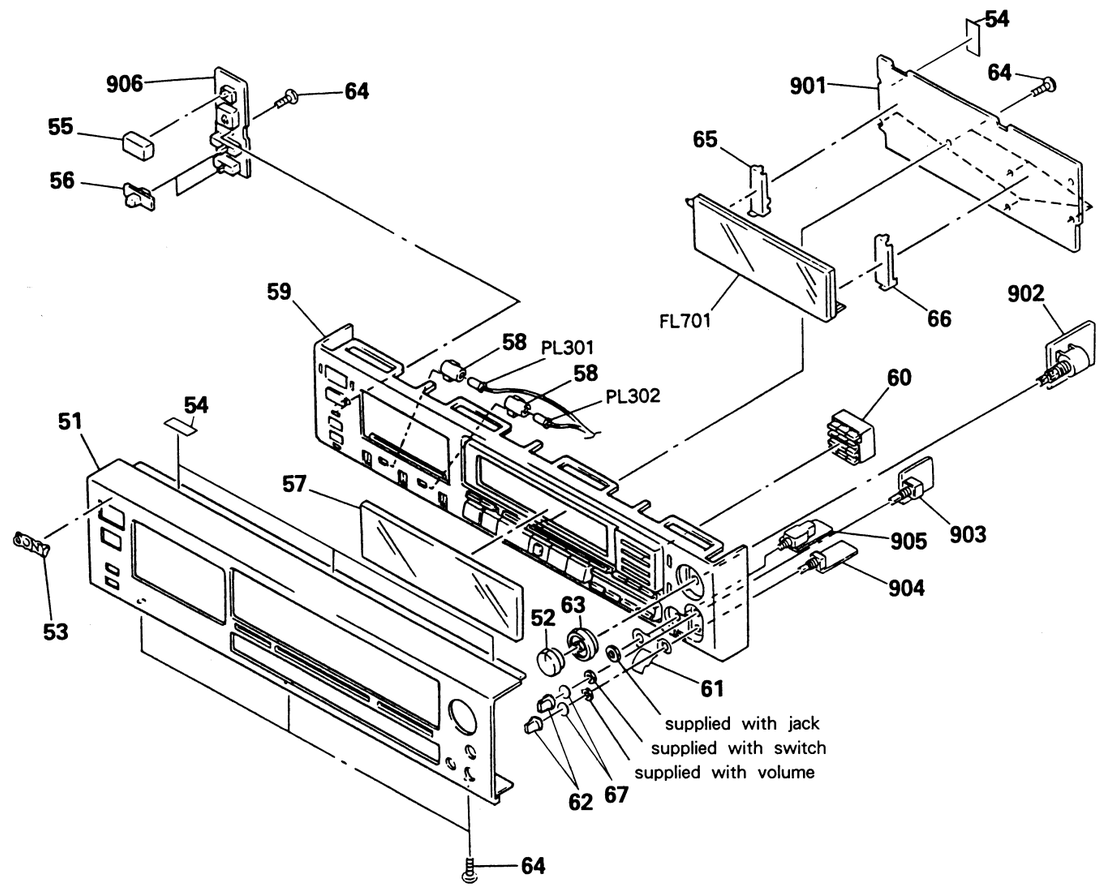
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

5-1. CABINET SECTION



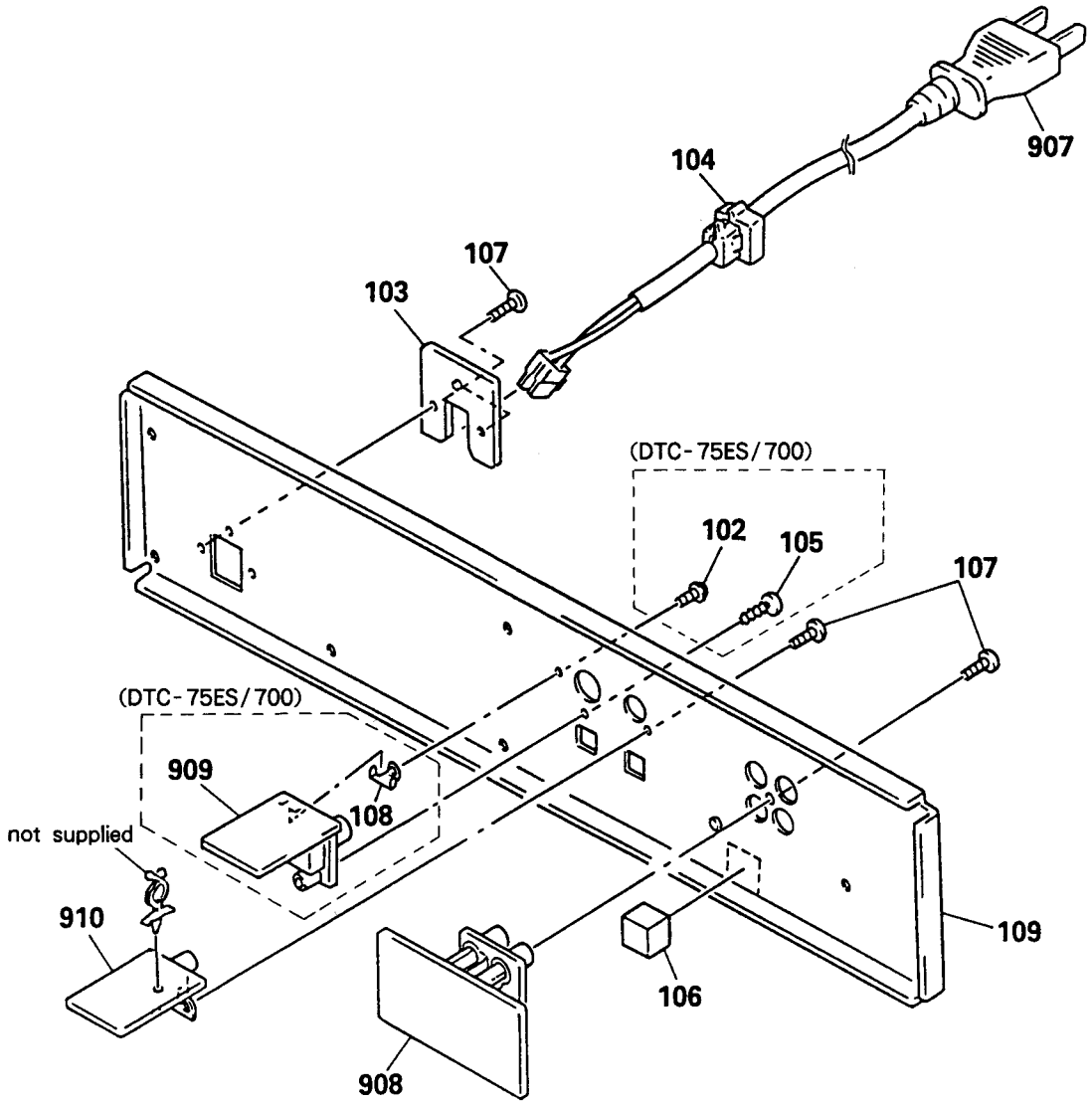
No.	Part No.	Description	Remarks
1	X-3304-938-2	FOOT ASSY	
2	*4-931-433-11	PLATE, BOTTOM	
3	3-350-407-41	CASE	
4	7-682-548-09	SCREW +BVTT 3X8 (S)	
5	3-704-366-01	(55ES:UK/700)....SCREW (CASE) (M3X8)	
	4-933-446-01	(55ES:AEP/75ES)...SCREW (SIDE PANEL)	
6	7-682-547-09	SCREW +B 3X6	
7	*4-936-612-01	RUBBER (DAMPER)	
8	*X-4919-028-1	(55ES:AEP/75ES)...PANEL (R) ASSY, SIDE	
9	*X-4919-027-1	(55ES:AEP/75ES)...PANEL (L) ASSY, SIDE	
10	3-831-441-XX	CUSHION, SPEAKER	
11	4-923-836-11	CUSHION	

5-2. FRONT PANEL SECTION



No.	Part No.	Description	Remarks
51	4-936-605-11	(700).....PANEL (FRONT)	
	4-936-605-21	(55ES:AEP)...PANEL (FRONT)	
	4-936-605-31	(55ES:UK)....PANEL (FRONT)	
	4-936-605-41	(75ES).....PANEL (FRONT)	
52	3-332-590-01	KNOB (REC VOL-RIGHT)	
53	4-908-848-01	EMBLEM, SONY	
54	3-831-441-XX	CUSHION, SPEAKER	
55	4-922-921-01	BUTTON (POWER)	
56	4-931-421-01	KNOB (T & S)	
57	4-931-482-01	WINDOW (FL TUBE)	
58	*4-925-758-11	COVER (L), LAMP	
59	X-4919-024-1	ESCUTCHEON (PANEL) ASSY	
60	4-923-782-21	BUTTON (10 KEY)	
61	4-931-483-01	PLATE (HP VOL), GROUND	
62	3-354-931-01	KNOB (DIA.10)	
63	3-332-589-01	KNOB (REC VOL-LEFT)	
64	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
65	*4-922-524-01	HOLDER (LEFT)	
66	*4-922-523-01	HOLDER (RIGHT)	
67	3-354-981-01	SPRING (SUS), RING	
901	*A-2006-274-A	MOUNTED PCB, CONTROL SW	
902	*1-633-721-11	PC BOARD, REC VOL	
903	*1-633-724-11	PC BOARD, INPUT SELECT	
904	*1-633-722-11	PC BOARD, HEADPHONE VOL	
905	*1-633-723-11	PC BOARD, HEADPHONE JACK	
906	*1-633-725-11	PC BOARD, POWER SW	
FL701	1-519-562-11	INDICATOR TUBE, FLUORESCENT	
PL301	1-518-664-11	LAMP, PILOT	
PL302	1-518-664-11	LAMP, PILOT	

5-3. BACK PANEL SECTION



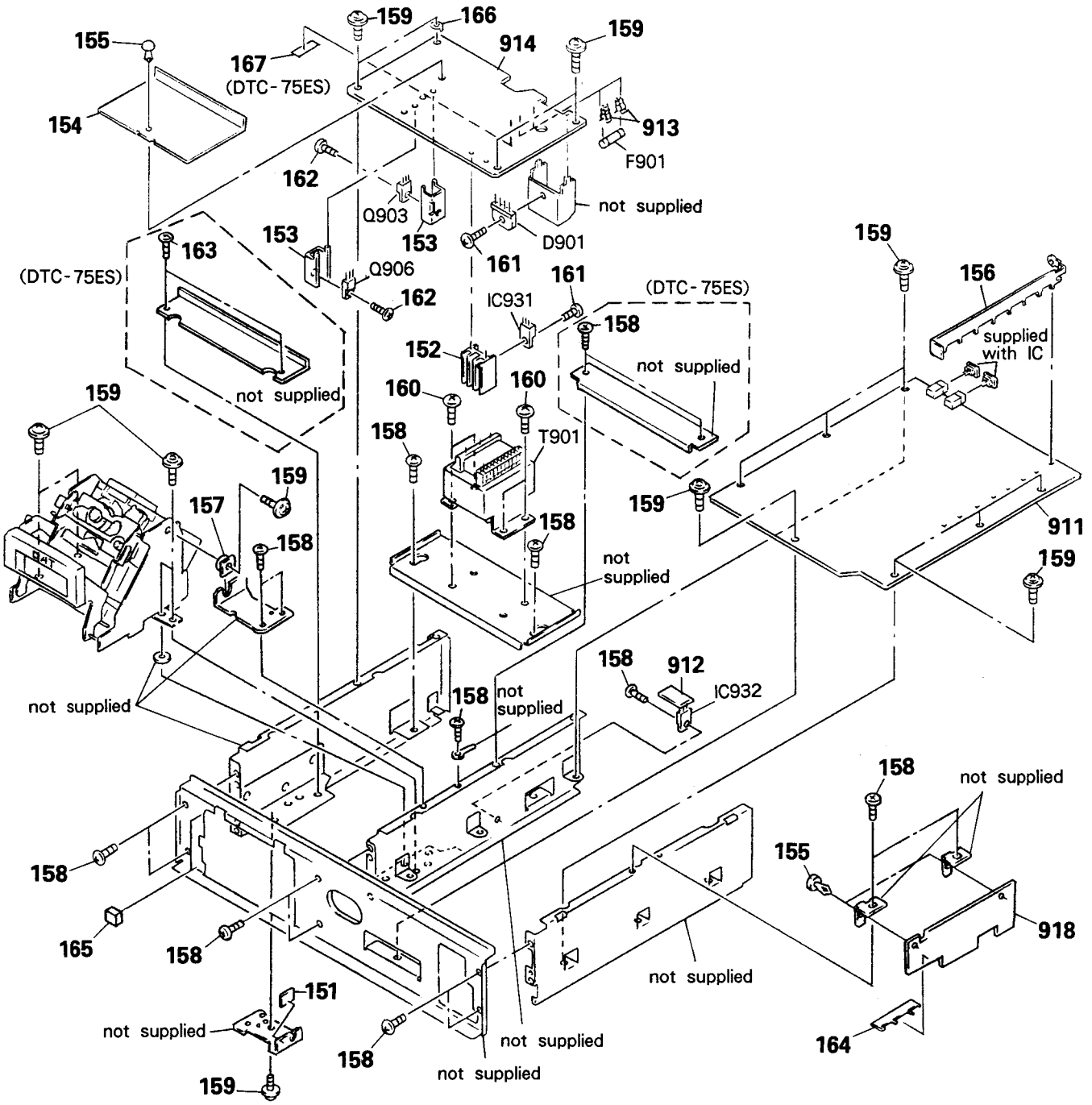
No.	Part No.	Description	Remarks
102	7-621-771-06	(75ES/700)...SCREW, LOCK	
103	*4-923-873-01	BRACKET, CORD STOPPER	
104	*3-703-244-00	(55ES/700)...BUSHING (2104), CORD	
	4-916-783-01	(75ES).....BUSHING, CORD	
105	7-685-646-79	(75ES/700)...SCREW +BVTP 3X8 TYPE2 N-S	
106	*4-936-607-01	BUSHING, RUBBER	
107	7-682-548-09	SCREW +BVTT 3X8 (S)	
108	*4-916-318-01	(75ES/700)...PLATE, GROUND	

No.	Part No.	Description	Remarks
109	*4-931-498-11	(700).....PANEL, BACK	
	*4-931-498-22	(55ES:AEP)...PANEL, BACK	
	*4-931-498-32	(55ES:UK)....PANEL, BACK	
	*4-931-498-41	(75ES).....PANEL, BACK	
907	⚠1-559-479-11	(75ES).....CORD, POWER	
	⚠1-575-695-11	(700).....CORD, POWER	
	⚠1-575-912-11	(55ES:AEP)...CORD, POWER	
	⚠1-575-913-11	(55ES:UK)....CORD, POWER	
908	*1-633-719-11	PC BOARD, PIN JACK	
909	*1-633-718-11	(75ES/700)...PC BOARD, DIGITAL OUT	
910	*1-633-717-11	PC BOARD, DIGITAL IN	

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-4. CHASSIS SECTION



No.	Part No.	Description	Remarks
151	2-272-609-00	SPACER	
152	*4-363-146-71	HEAT SINK, V.OUT	
153	4-902-345-01	HEAT SINK	
154	*4-931-491-01	COVER (POWER)	
155	3-531-576-01	RIVET	
156	*4-931-489-01	PLATE (BUS BAR), GROUND	
157	4-931-466-01	SPACER	
158	7-682-548-09	SCREW +BVTT 3X8 (S)	
159	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
160	7-682-560-04	SCREW +BVTT 4X6 (S)	
161	7-682-548-09	SCREW +B 3X8	
162	7-682-147-15	SCREW, TR	
163	7-682-545-09	(75ES)...SCREW +P 3X4	
164	*3-311-617-11	REINFORCEMENT, PCB	
165	9-911-842-XX	CUSHION, PC BOARD	
166	4-870-539-00	PLATE, GROUND	
167	3-701-947-15	(55ES)...LABEL (T2.5A), FUSE	
911	*A-2006-291-A	(700)....MOUNTED PCB, MAIN	
	*A-2006-292-A	(75ES)...MOUNTED PCB, MAIN	
	*A-2006-303-A	(55ES)...MOUNTED PCB, MAIN	

No.	Part No.	Description	Remarks
912	*1-633-814-11	PC BOARD, TRANSISTER	
913	*1-533-213-31	HOLDER, FUSE	
914	*A-2006-244-A	(55ES:AEP)...MOUNTED PCB, POWER	
	*A-2006-293-A	(75ES/700)...MOUNTED PCB, POWER	
	*A-2006-296-A	(55ES:UK)....MOUNTED PCB, POWER	
918	*1-635-440-11	PC BOARD, A/D	
D901	8-719-311-72	DIODE RBV-406H-01	
F901	⚠.1-532-286-00	(55ES).....FUSE, TIME-LAG (2.5A)	
F901	⚠.1-532-744-11	(75ES/700)...FUSE, GLASS TUBE (2.5A)	
IC931	8-759-148-79	IC UPC2406HF	
IC932	8-759-634-55	IC M5F7805L-720	
Q903	8-729-127-53	TRANSISTOR 2SC2275-P	
Q906	8-729-190-53	TRANSISTOR 2SA985A	
T901	⚠.1-450-080-11	(75ES/700)...TRANSFORMER, POWER	
T901	⚠.1-450-164-11	(55ES).....TRANSFORMER, POWER	

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Note:
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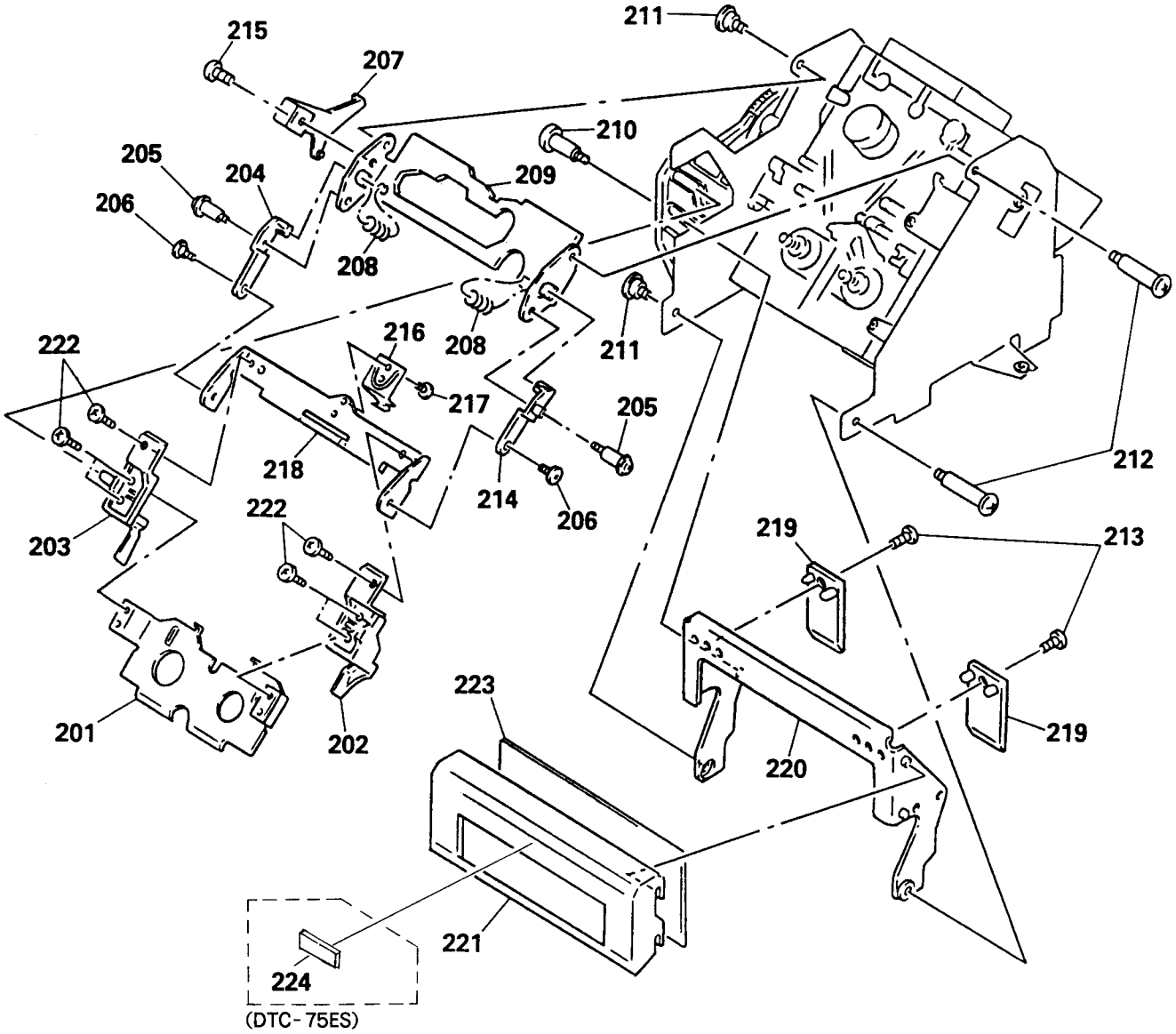
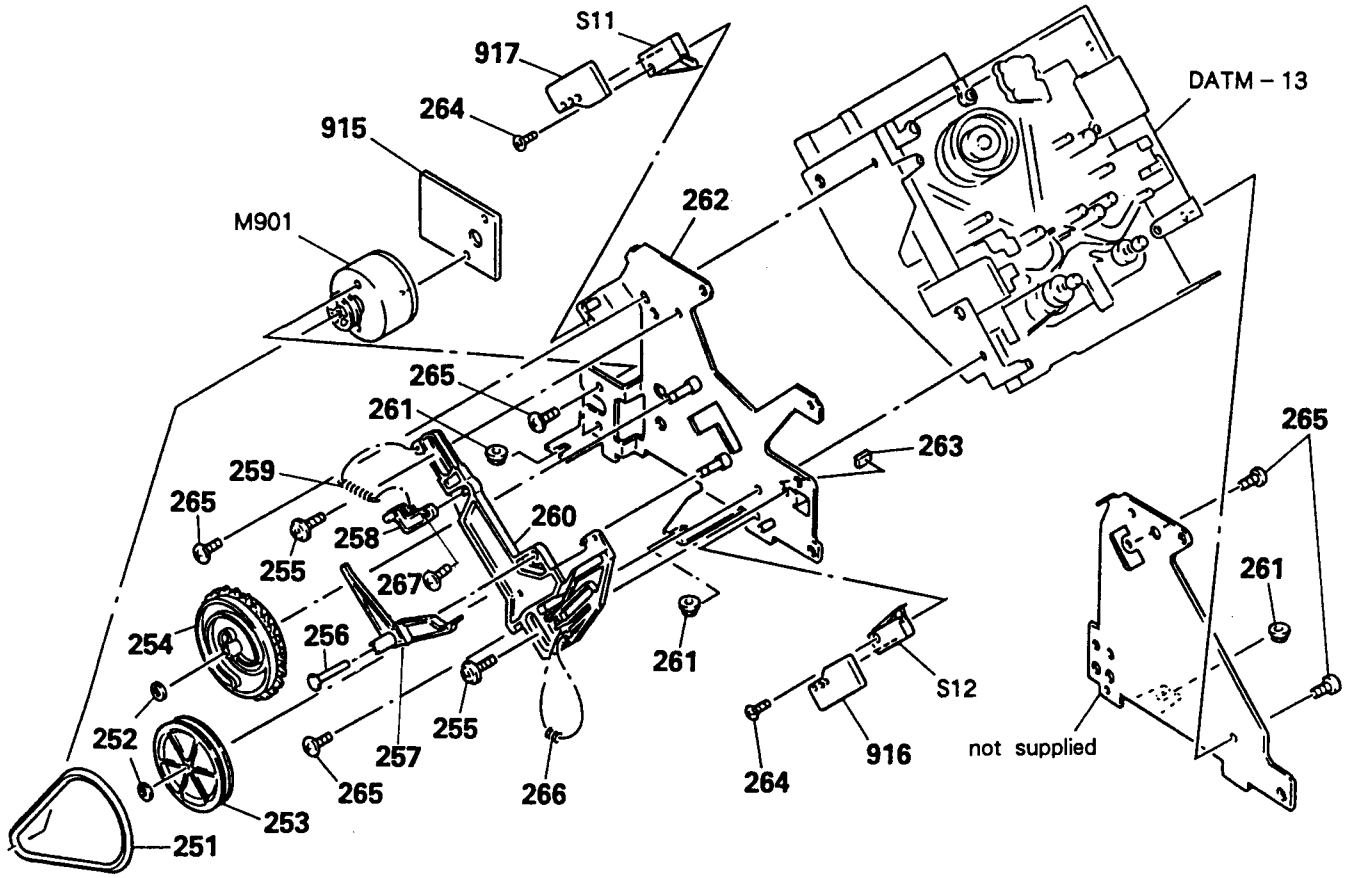
5-5. MECHANISM SECTION 1



No.	Part No.	Description	Remarks
201	4-931-476-01	HOLDER (LOWER)	
202	4-931-486-01	HOLDER (C-RIGHT)	
203	4-931-484-01	HOLDER (C-LEFT)	
204	4-931-473-01	ARM (LIMITER R)	
205	4-918-991-01	SCREW, STEP	
206	3-312-161-00	SCREW, STEP, PRECISION	
207	*X-4919-020-1	JOINT ASSY	
208	3-537-214-00	SPRING, COMPRESSION	
209	*4-931-475-01	PLATE, FULCRUM	
210	4-931-471-01	SCREW (STEP)	
211	2-236-956-00	SCREW, STEP	
212	4-931-463-01	SCREW (STEP)	
213	7-621-772-08	SCREW +B 2X3	

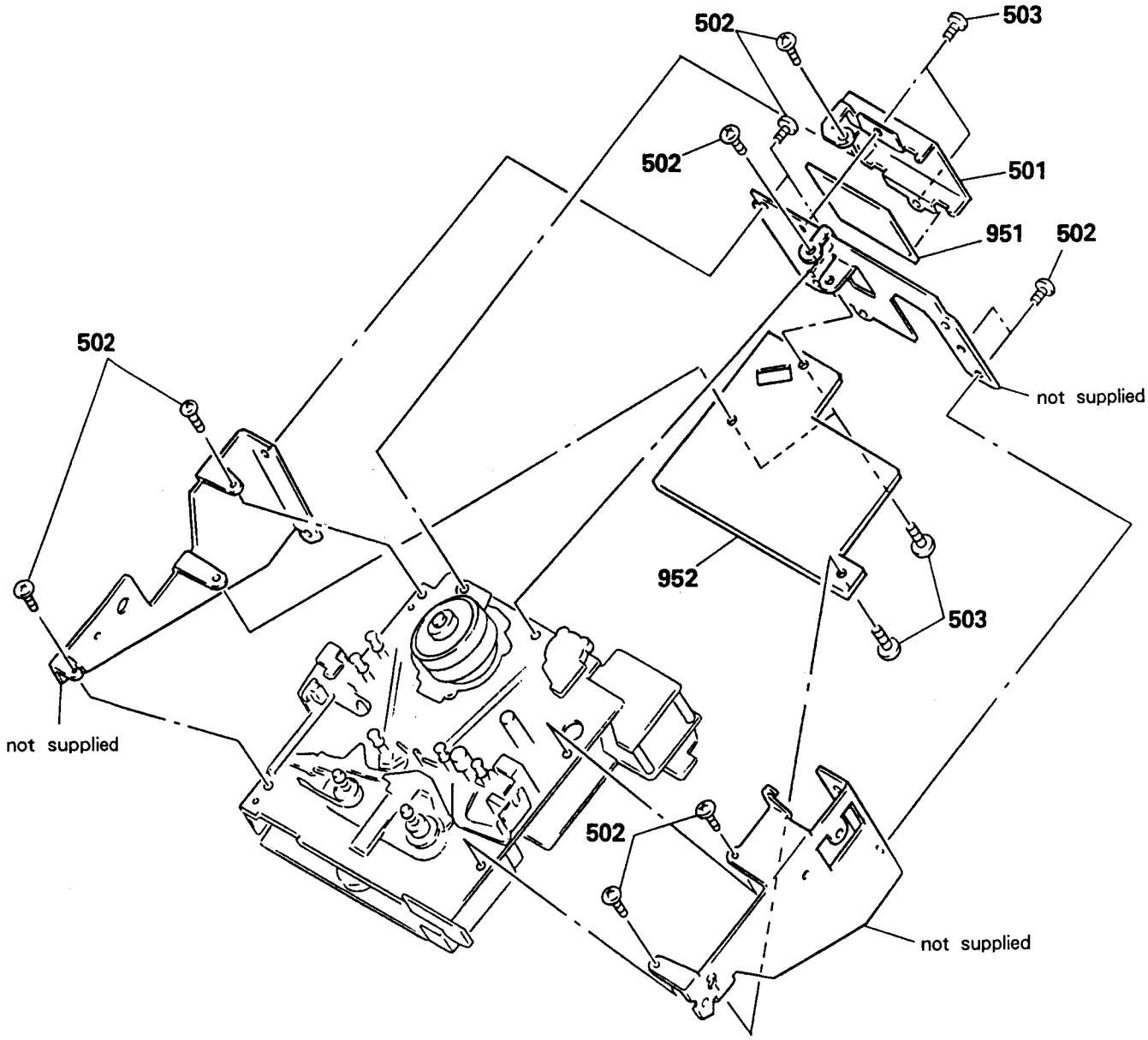
No.	Part No.	Description	Remarks
214	4-931-481-01	ARM (LIMITER L)	
215	7-682-545-09	SCREW +B 3X4	
216	4-931-461-01	SPRING (CENTER), LEAF	
217	3-352-517-01	SCREW (M2X2.5)	
218	*4-931-485-01	HOLDER (C-INNER)	
219	4-931-469-01	PLATE, ORNAMENTAL	
220	4-931-474-01	HOLDER (WINDOW)	
221	4-931-480-01	(700)....LID, CASSETTE	
	4-931-480-11	(75ES)...LID, CASSETTE	
222	7-621-772-10	SCREW +B 2X4	
223	4-931-462-01	WINDOW	
224	4-936-615-01	(75ES)...PLATE (DAT LOGO), ORNAMENTAL	

5-6. MECHANISM SECTION 2



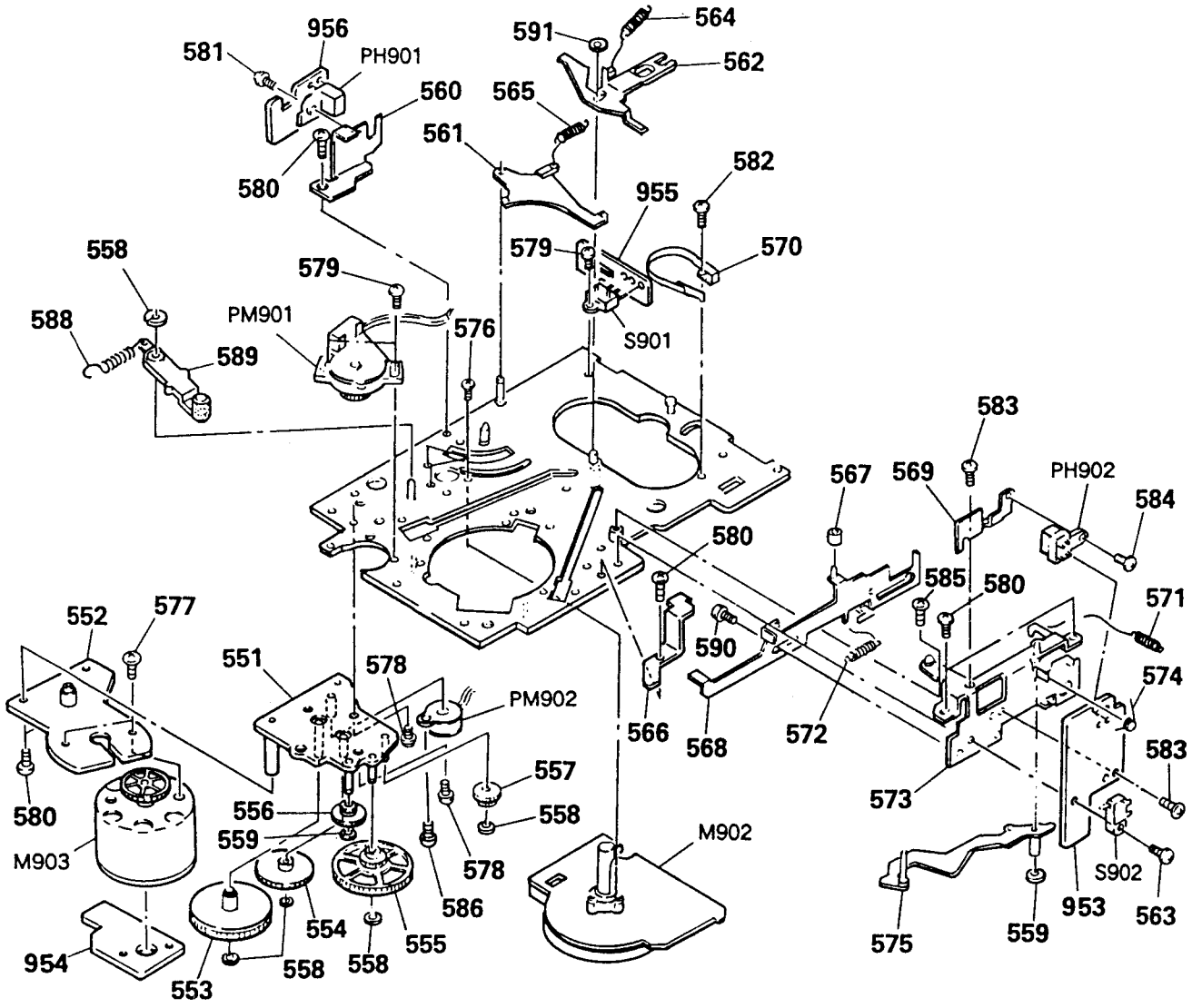
No.	Part No.	Description	Remarks
251	4-931-470-01	BELT (DRIVING)	
252	3-307-948-21	WASHER, NYLON	
253	4-931-459-01	PULLEY	
254	4-931-477-01	GEAR (CAM)	
255	4-932-336-01	SCREW (STEP)	
256	4-931-468-01	SHAFT (PRESS FITTING)	
257	4-931-490-01	LEVER (LINK)	
258	4-931-460-01	ARM (SLIDER)	
259	3-549-810-00	SPRING, TENSION	
260	4-931-492-01	SLIDER (CAM)	
261	4-931-466-01	SPACER	
262	*X-4919-023-1	PLATE ASSY, SIDE	
263	9-911-863-XX	SPACER	
264	7-621-255-45	SCREW +P 2X6	
265	7-621-775-08	SCREW +B 2.6X3	
266	3-537-215-00	SPRING, COMPRESSION	
267	4-936-626-01	SHAFT (ARM PRESS FITTING)	
915	*1-633-726-11	PC BOARD, CASSETTE COMPARTMENT MOTOR	
916	*1-633-727-11	PC BOARD, CASSETTE COMPARTMENT IN	
917	*1-633-728-11	PC BOARD, CASSETTE COMPARTMENT OUT	
M901	A-2003-448-A	MOTOR ASSY (CASSETTE COMPARTMENT)	
S11	1-570-975-11	SWITCH, SLIDE (CASSETTE TABLE IN)	
S12	1-572-247-11	SWITCH, SLIDE (CASSETTE TABLE OUT)	

5-7. MECHANISM SECTION 3 (DATM-13)



No.	Part No.	Description	Remarks
501	*3-352-522-01	CASE, SHIELD	
502	7-621-775-08	SCREW +B 2.6X3	
503	7-621-775-10	SCREW +B 2.6X4	
951	*A-2006-139-A	MOUNTED PCB, RF AMPLIFIER	
952	*A-2006-140-A	MOUNTED PCB, DRUM DRIVE	

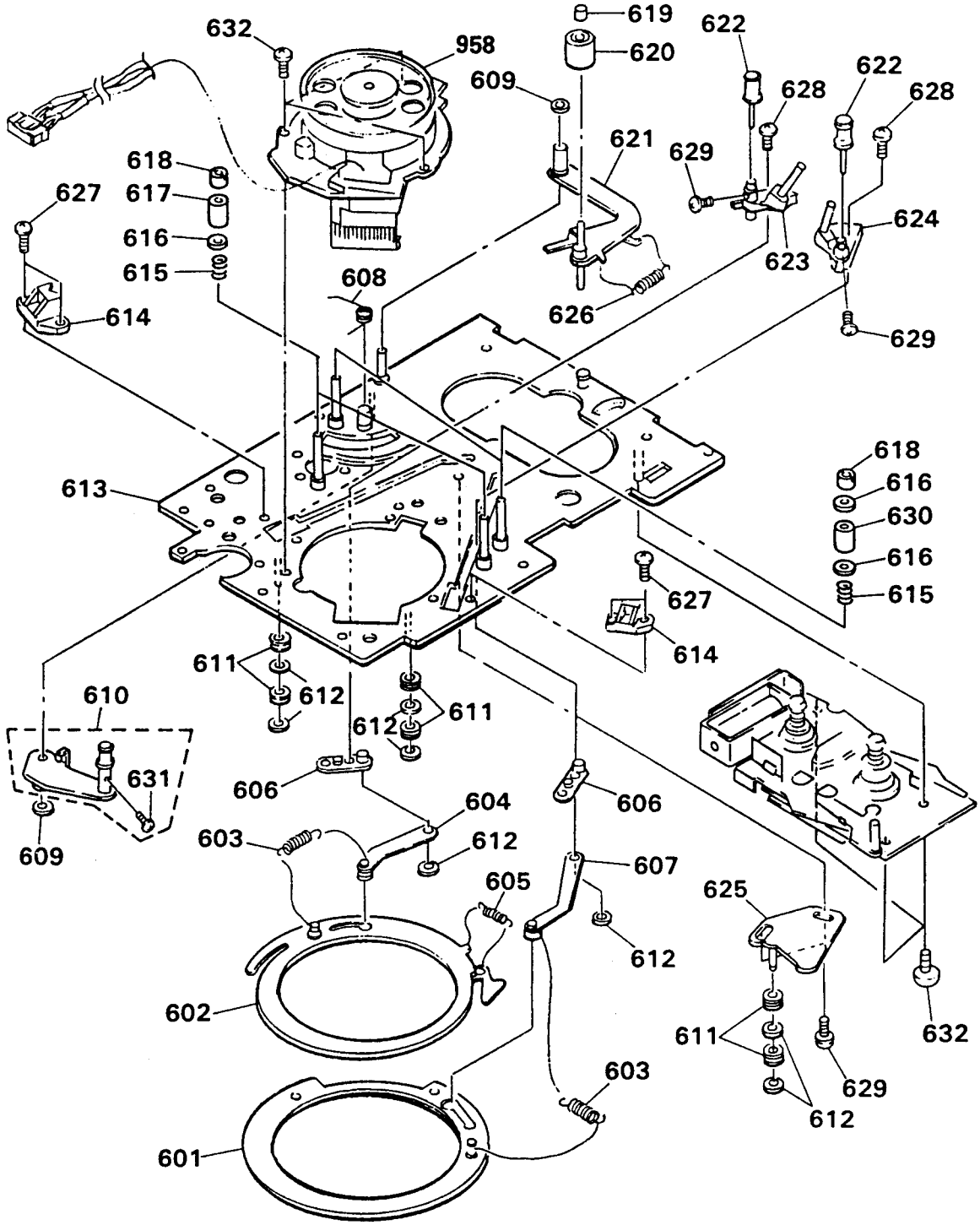
5-8. MECHANISM SECTION 4 (DATM-13)



No.	Part No.	Description	Remarks
551	*X-3337-656-1	CHASSIS (DECELERATION GEAR) ASSY	
552	*X-3337-659-1	BRACKET (MOTOR) ASSY	
553	X-3337-630-3	GEAR (B) ASSY	
554	3-345-129-01	GEAR (A)	
555	3-345-181-01	GEAR (LOADING A)	
556	3-337-669-01	GEAR, MIDWAY	
557	3-345-182-01	GEAR (LOADING B)	
558	3-701-436-11	WASHER, 1.6 POLYETHYLENE	
559	3-559-408-11	WASHER, POLYETHYLENE, DIA.1.2	
560	*3-352-507-01	HOLDER (R)	
561	3-345-145-01	LEVER (T LOCK)	
562	X-3337-638-1	LEVER (SLIDER) ASSY	
563	7-621-772-38	SCREW +B 2X6	
564	3-570-898-00	SPRING, TENSION	
565	3-547-661-00	SPRING, TENSION	
566	*3-352-506-01	HOLDER (L)	
567	3-352-525-01	ROLLER (TENSION REGULATOR)	
568	X-3337-618-1	SLIDER ASSY, MODE	
569	*3-352-515-01	HOLDER (E SENSOR L)	
570	X-3337-632-1	BAND (TENSION REGULATOR) ASSY	
571	3-352-527-01	SPRING, TENSION	
572	3-570-892-00	SPRING, TENSION	
573	*X-3337-657-1	CHASSIS (TENSION REGULATOR) ASSY	
574	3-337-673-01	SPRING	
575	*X-3337-654-1	LEVER (TENSION REGULATOR) ASSY	
576	7-627-552-47	SCREW, PRECISION +P 1.7X4	

No.	Part No.	Description	Remarks
577	7-621-775-00	SCREW +B 2.6X3	
578	7-628-253-00	SCREW +PS 2X4	
579	7-621-772-18	SCREW +B 2X4	
580	7-621-772-08	SCREW +B 2X3	
581	7-621-772-20	SCREW +B 2X5	
582	7-627-852-27	+P 1.7X3	
583	7-627-552-18	SCREW, PRECISION +P 1.7X1.6	
584	3-884-232-00	SCREW M 1.7X2.5	
585	3-352-517-01	SCREW (M2X2.5)	
586	7-621-255-10	SCREW +P 2X3	
588	3-307-377-00	SPRING, TENSION	
589	A-2003-438-A	CLEANER ASSY, HEAD	
590	3-703-502-11	SCREW	
591	3-321-813-01	WASHER, COTTER POLYETHYLENE	
953	*1-633-711-11	PC BOARD, END SENSOR (S)	
954	*1-633-713-11	PC BOARD, CONTROL MOTOR	
955	*1-633-710-11	PC BOARD, RECOGUNITION	
956	*1-633-712-11	PC BOARD, END SENSOR (T)	
M902	8-835-306-01	MOTOR, DC U-17A (CAPSTAN)	
M903	A-2003-545-A	MOTOR ASSY (CONTROL)	
PH901	1-808-957-11	PHOTO SENSOR (END T)	
PH902	1-808-957-11	PHOTO SENSOR (END S)	
PM901	1-464-724-31	ENCODER, ROTARY	
PM902	1-454-462-21	SOLENOID, PLUNGER (LOADING)	
S901	1-571-878-11	SWITCH, PUSH(2 KEY)(CASSETTE IN/REC PROOF)	
S902	1-570-771-21	SWITCH (LIMIT)	

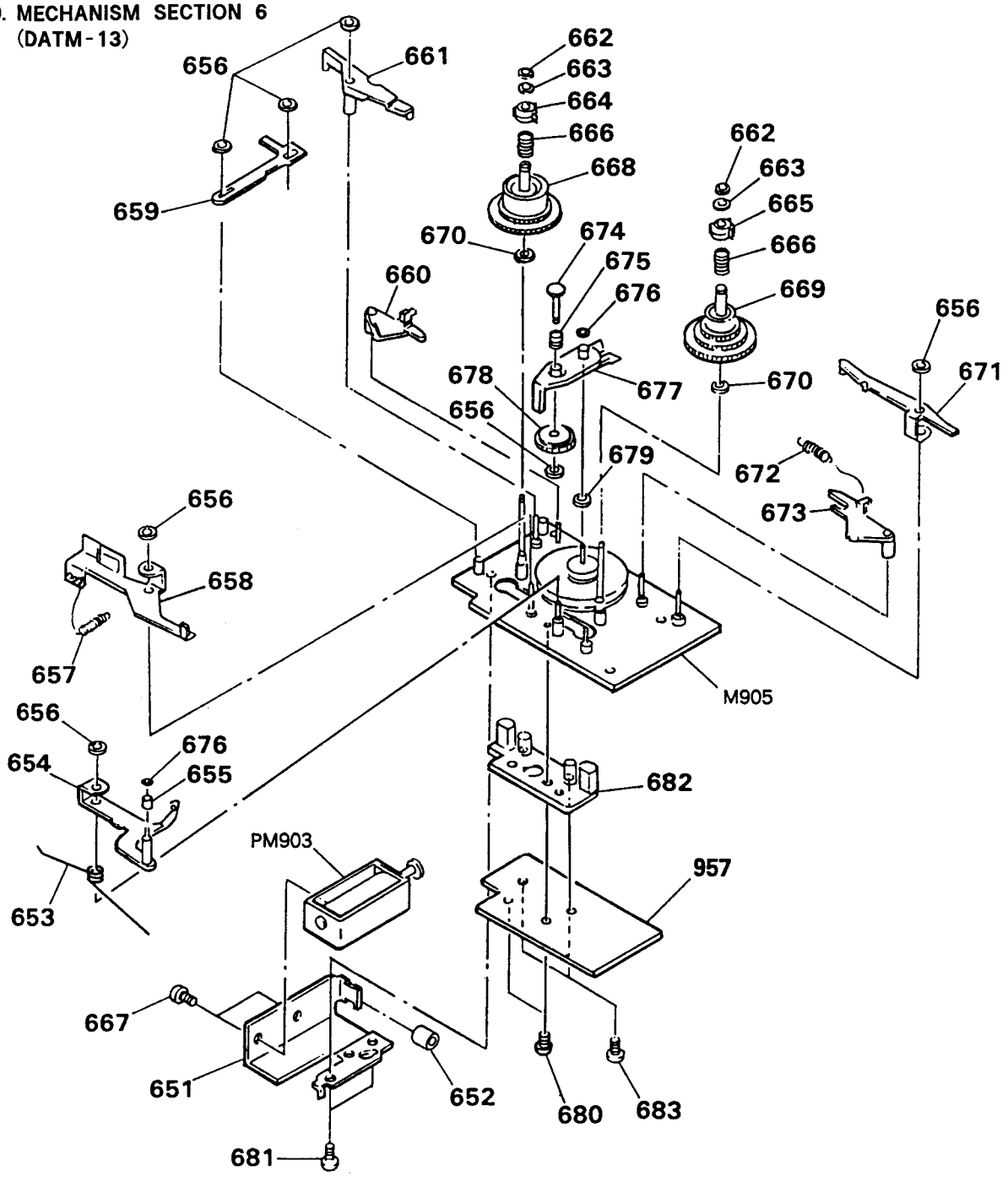
5-9. MECHANISM SECTION 5 (DATM-13)



No.	Part No.	Description	Remarks
601	X-3337-602-1	RING (LEFT) ASSY, LOADING	
602	X-3337-601-1	RING (RIGHT) ASSY, LOADING	
603	3-337-653-01	SPRING, TENSION	
604	*X-3337-603-1	ARM (RIGHT) ASSY, LOADING	
605	3-352-503-01	SPRING, TENSION	
606	X-3337-604-1	PLATE ASSY, LOADING	
607	*X-3337-607-1	ARM (LEFT) ASSY, LOADING	
608	3-352-513-01	SPRING (F GUIDE RETURN)	
609	3-701-436-11	WASHER, 1.6 POLYETHYLENE	
610	A-2003-408-A	LEVER (F ARM) ASSY	
611	3-337-622-01	ROLLER, RING	
612	3-559-408-11	WASHER, POLYETHYLENE, DIA.1.2	
613	*X-3337-658-1	CHASSIS (MECHANICAL) ASSY	
614	*3-345-195-01	CATCHER	
615	3-573-470-00	SPRING, COMPRESSION	
616	3-337-677-01	FLANGE	
617	3-337-676-11	GUIDE, FIXED	

No.	Part No.	Description	Remarks
618	3-337-605-01	NUT, ADJUSTMENT	
619	3-337-626-01	CAP, PINCH ROLLER	
620	X-3337-610-1	PINCH ROLLER ASSY	
621	X-3337-660-1	ARM (PINCH ROLLER) ASSY	
622	X-3337-622-1	GUIDE (POM) ASSY, ROLLER	
623	X-3337-652-1	SLANT BLOCK (RIGHT) ASSY	
624	X-3337-651-1	SLANT BLOCK (LEFT) ASSY	
625	*X-3337-605-1	ARM ASSY, RING ROLLER	
626	3-547-659-00	SPRING, TENSION	
627	7-627-852-17	+P 1.7X4	
628	3-703-502-81	SCREW	
629	7-627-551-17	SCREW, PRECISION +P 1.4X2	
630	3-337-676-01	GUIDE, FIXED	
631	7-627-551-27	SCREW, PRECISION +P 1.4X2.5	
632	7-621-772-18	SCREW +B 2X4	
958	8-848-513-11	DRUM ASSY DOU-02D	

5-10. MECHANISM SECTION 6 (DATM-13)



No.	Part No.	Description	Remarks
651	*3-345-118-01	BRACKET (SOLENOID)	
652	*3-576-990-01	CUSHION	
653	3-345-169-01	SPRING, TORSION	
654	*X-3337-628-1	LEVER ASSY	
655	3-345-104-01	COLLAR	
656	3-559-408-11	WASHER, POLYETHYLENE, DIA.1.2	
657	3-345-168-01	SPRING, TENSION	
658	*X-3337-640-1	LEVER (REVERSE SB) ASSY	
659	*3-345-166-01	LEVER (SOLENOID)	
660	X-3337-635-1	LEVER (BRAKE T) ASSY	
661	3-345-110-01	LEVER (BRAKE ARM)	
662	3-578-224-00	WASHER	
663	3-345-112-01	RING, RETAINING	
664	*2-623-736-01	CLAW (C) (LEFT), REEL	
665	*2-623-752-01	CLAW (C) (RIGHT), REEL	
666	2-623-754-01	SPRING, COMPRESSION	
667	7-621-775-00	SCREW +B 2.6X3	
668	X-3337-634-1	TABLE (S) ASSY, REEL	

No.	Part No.	Description	Remarks
669	X-3337-642-1	TABLE (T) ASSY, REEL	
670	3-701-438-11	WASHER, 2.5	
671	*X-3337-637-1	LEVER (BRAKE RELEASE) ASSY	
672	3-527-190-00	SPRING, TENSION	
673	X-3337-636-1	LEVER (BRAKE S) ASSY	
674	*3-345-114-01	SHAFT (MIDWAY GEAR)	
675	3-345-115-01	SPRING, COMPRESSION	
676	3-315-384-11	WASHER, STOPPER	
677	3-345-113-01	LEVER (FR)	
678	X-3337-633-1	GEAR (MIDWAY) ASSY	
679	3-701-436-11	WASHER, 1.6 POLYETHYLENE	
680	7-621-772-18	SCREW +B 2X4	
681	7-621-772-08	SCREW +B 2X3	
682	*3-345-142-01	HOLDER (FG SENSOR)	
683	7-685-102-19	SCREW +P 2X4 TYPE2 SLIT	
957	*1-633-709-11	PC BOARD, REEL FG	
M905	8-835-346-11	MOTOR, DC U-16B (REEL)	
PM903	1-454-482-21	SOLENOID, PLUNGER (REEL MOTOR CONTROL)	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
901	*A-2006-274-A	MOUNTED PCB, CONTROL SW
902	*1-633-721-11	PC BOARD, REC VOL
903	*1-633-724-11	PC BOARD, INPUT SELECT
904	*1-633-722-11	PC BOARD, HEADPHONE VOL
905	*1-633-723-11	PC BOARD, HEADPHONE JACK
906	*1-633-725-11	PC BOARD, POWER SW
907	⚠1-559-479-11	(75ES).....CORD, POWER
	⚠1-575-695-11	(700).....CORD, POWER
	⚠1-575-912-11	(55ES:AEP)...CORD, POWER
	⚠1-575-913-11	(55ES:UK)....CORD, POWER
908	*1-633-719-11	PC BOARD, PIN JACK
909	*1-633-718-11	(75ES/700)...PC BOARD, DIGITAL OUT
910	*1-633-717-11	PC BOARD, DIGITAL IN
911	*A-2006-291-A	(700)....MOUNTED PCB, MAIN
	*A-2006-292-A	(75ES)...MOUNTED PCB, MAIN
	*A-2006-303-A	(55ES)...MOUNTED PCB, MAIN
912	*1-633-814-11	PC BOARD, TRANSISTER
913	*1-533-213-31	HOLDER, FUSE
914	*A-2006-244-A	(55ES:AEP)...MOUNTED PCB, POWER
	*A-2006-293-A	(75ES/700)...MOUNTED PCB, POWER
	*A-2006-296-A	(55ES:UK)....MOUNTED PCB, POWER
915	*1-633-726-11	PC BOARD, CASSETTE COMPARTMENT MOTOR
916	*1-633-727-11	PC BOARD, CASSETTE COMPARTMENT IN
917	*1-633-728-11	PC BOARD, CASSETTE COMPARTMENT OUT
918	*1-635-440-11	PC BOARD, A/D
951	*A-2006-139-A	MOUNTED PCB, RF AMPLIFIER
952	*A-2006-140-A	MOUNTED PCB, DRUM DRIVE
953	*1-633-711-11	PC BOARD, END SENSOR (S)
954	*1-633-713-11	PC BOARD, CONTROL MOTOR
955	*1-633-710-11	PC BOARD, RECOGUNITION
956	*1-633-712-11	PC BOARD, END SENSOR (T)
957	*1-633-709-11	PC BOARD, REEL FG
958	8-848-513-11	DRUM ASSY DOU-02D
C01	1-162-851-11	CERAMIC 0.1MF 16V
C02	1-163-038-00	CERAMIC CHIP 0.1MF 25V
C101	1-136-439-11	FILM 330PF 5% 630V
C101A	1-124-925-11	ELECT 2.2MF 20% 50V
C102	1-136-253-11	FILM 0.0018MF 3% 100V
C102A	1-123-875-11	ELECT 10MF 20% 50V
C103	1-136-433-11	FILM 100PF 5% 630V
C103A	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V
C104	1-136-253-11	FILM 0.0018MF 3% 100V
C104A	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V
C105	1-136-433-11	FILM 100PF 5% 630V
C105A	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V
C106	1-136-433-11	FILM 100PF 5% 630V
C106A	1-124-446-11	ELECT 47MF 20% 10V
C107	1-136-433-11	FILM 100PF 5% 630V
C108	1-136-233-11	FILM 0.0047MF 3% 100V
C109	1-136-228-11	FILM 0.0012MF 3% 100V
C110	1-126-062-11	ELECT 47MF 20% 63V
C111	1-126-059-11	ELECT 10MF 20% 63V
C120	1-126-062-11	ELECT 47MF 20% 63V
C121	1-126-062-11	ELECT 47MF 20% 63V
C122	1-136-153-00	FILM 0.01MF 5% 50V
C163	1-162-290-31	CERAMIC 470PF 10% 50V
C173	1-162-290-31	CERAMIC 470PF 10% 50V
C181	1-162-279-31	(75ES/700)...CERAMIC 75PF 10% 50V
C182	1-162-179-11	(75ES/700)...CERAMIC 0.1MF 50V
C201	1-136-439-11	FILM 330PF 5% 630V
C202	1-136-253-11	FILM 0.0018MF 3% 100V
C203	1-136-433-11	FILM 100PF 5% 630V
C204	1-136-253-11	FILM 0.0018MF 3% 100V
C205	1-136-433-11	FILM 100PF 5% 630V
C206	1-136-433-11	FILM 100PF 5% 630V
C207	1-136-433-11	FILM 100PF 5% 630V
C208	1-136-233-11	FILM 0.0047MF 3% 100V
C209	1-136-228-11	FILM 0.0012MF 3% 100V
C210	1-126-062-11	ELECT 47MF 20% 63V
C211	1-126-059-11	ELECT 10MF 20% 63V
C220	1-126-062-11	ELECT 47MF 20% 63V
C221	1-126-062-11	ELECT 47MF 20% 63V
C222	1-136-153-00	FILM 0.01MF 5% 50V
C302	1-130-834-00	FILM 1MF 10% 63V
C303	1-162-211-31	CERAMIC 33PF 5% 50V
C304	1-136-165-00	FILM 0.1MF 5% 50V
C305	1-136-165-00	FILM 0.1MF 5% 50V
C306	1-136-153-00	FILM 0.01MF 5% 50V
C308	1-136-157-00	(75ES/700)...FILM 0.022MF 5% 50V
C309	1-124-482-11	(75ES/700)...ELECT 33MF 20% 25V
C310	1-162-294-31	CERAMIC 0.001MF 10% 50V
C311	1-162-199-31	CERAMIC 10PF 5% 50V
C312	1-162-199-31	CERAMIC 10PF 5% 50V
C313	1-162-201-31	CERAMIC 12PF 5% 50V
C314	1-162-201-31	CERAMIC 12PF 5% 50V
C315	1-162-294-31	CERAMIC 0.001MF 10% 50V
C316	1-130-834-00	FILM 1MF 10% 63V
C317	1-162-294-31	CERAMIC 0.001MF 10% 50V
C318	1-102-959-00	CERAMIC 22PF 5% 50V

Ref.No.	Part No.	Description			
C319	1-162-179-11	CERAMIC	0.1MF		50V
C320	1-126-022-11	ELECT	47MF	20%	10V
C321	1-162-201-31	CERAMIC	12PF	5%	50V
C322	1-162-201-31	CERAMIC	12PF	5%	50V
C323	1-162-179-11	CERAMIC	0.1MF		50V
C324	1-164-159-11	CERAMIC	0.1MF		50V
C325	1-162-179-11	CERAMIC	0.1MF		50V
C328	1-162-294-31	CERAMIC	0.001MF	10%	50V
C329	1-124-994-11	ELECT	100MF	20%	10V
C330	1-162-294-31	CERAMIC	0.001MF	10%	50V
C331	1-162-294-31	CERAMIC	0.001MF	10%	50V
C332	1-136-165-00	FILM	0.1MF	5%	50V
C333	1-136-165-00	FILM	0.1MF	5%	50V
C334	1-162-290-31	CERAMIC	470PF	10%	50V
C335	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C336	1-126-022-11	ELECT	47MF	20%	10V
C337	1-162-179-11	CERAMIC	0.1MF		50V
C338	1-136-157-00	FILM	0.022MF	5%	50V
C339	1-130-473-00	MYLAR	0.0015MF	5%	50V
C340	1-136-158-00	FILM	0.027MF	5%	50V
C341	1-136-153-00	FILM	0.01MF	5%	50V
C342	1-130-474-00	MYLAR	0.0018MF	5%	50V
C343	1-136-159-00	FILM	0.033MF	5%	50V
C344	1-136-154-00	FILM	0.012MF	5%	50V
C345	1-136-154-00	FILM	0.012MF	5%	50V
C346	1-136-159-00	FILM	0.033MF	5%	50V
C347	1-130-474-00	MYLAR	0.0018MF	5%	50V
C349	1-126-022-11	ELECT	47MF	20%	10V
C350	1-162-294-31	CERAMIC	0.001MF	10%	50V
C351	1-162-294-31	CERAMIC	0.001MF	10%	50V
C352	1-136-157-00	FILM	0.022MF	5%	50V
C353	1-136-157-00	FILM	0.022MF	5%	50V
C354	1-126-022-11	ELECT	47MF	20%	10V
C355	1-164-159-11	CERAMIC	0.1MF		50V
C356	1-126-022-11	ELECT	47MF	20%	10V
C358	1-126-023-11	ELECT	100MF	20%	25V
C365	1-162-179-11	CERAMIC	0.1MF		50V
C366	1-164-159-11	CERAMIC	0.1MF		50V
C367	1-126-022-11	ELECT	47MF	20%	10V
C368	1-162-179-11	CERAMIC	0.1MF		50V
C369	1-164-159-11	CERAMIC	0.1MF		50V
C370	1-126-022-11	ELECT	47MF	20%	10V
C403	1-162-294-31	CERAMIC	0.001MF	10%	50V
C405	1-124-791-11	ELECT	1MF	20%	50V
C406	1-126-022-11	ELECT	47MF	20%	10V
C407	1-126-023-11	ELECT	100MF	20%	25V
C412	1-124-473-11	ELECT	1000MF	20%	10V
C413	1-124-927-11	ELECT	4.7MF	20%	50V
C421	1-136-154-00	FILM	0.012MF	5%	50V
C422	1-136-157-00	FILM	0.022MF	5%	50V
C423	1-162-207-31	CERAMIC	22PF	5%	50V
C424	1-164-159-11	CERAMIC	0.1MF		50V
C425	1-164-159-11	CERAMIC	0.1MF		50V
C426	1-124-927-11	ELECT	4.7MF	20%	50V
C427	1-126-023-11	ELECT	100MF	20%	25V
C430	1-124-927-11	ELECT	4.7MF	20%	50V
C501	1-162-179-11	CERAMIC	0.1MF		50V

Ref.No.	Part No.	Description			
C502	1-162-179-11	CERAMIC	0.1MF		50V
C503	1-126-023-11	ELECT	100MF	20%	25V
C504	1-136-165-00	FILM	0.1MF	5%	50V
C505	1-126-023-11	ELECT	100MF	20%	25V
C506	1-136-165-00	FILM	0.1MF	5%	50V
C507	1-126-023-11	ELECT	100MF	20%	25V
C508	1-136-165-00	FILM	0.1MF	5%	50V
C511	1-126-023-11	ELECT	100MF	20%	25V
C512	1-136-165-00	FILM	0.1MF	5%	50V
C513	1-136-165-00	FILM	0.1MF	5%	50V
C514	1-126-023-11	ELECT	100MF	20%	25V
C515	1-136-165-00	FILM	0.1MF	5%	50V
C516	1-126-023-11	ELECT	100MF	20%	25V
C517	1-136-165-00	FILM	0.1MF	5%	50V
C518	1-126-023-11	ELECT	100MF	20%	25V
C519	1-136-165-00	FILM	0.1MF	5%	50V
C520	1-124-713-11	ELECT	470MF	20%	35V
C521	1-126-024-11	ELECT	220MF	20%	25V
C522	1-126-024-11	ELECT	220MF	20%	25V
C523	1-162-179-11	CERAMIC	0.1MF		50V
C524	1-130-834-00	FILM	1MF	10%	63V
C525	1-136-153-00	FILM	0.01MF	5%	50V
C526	1-162-284-31	CERAMIC	150PF	10%	50V
C527	1-162-199-31	CERAMIC	10PF	5%	50V
C528	1-126-062-11	ELECT	47MF	20%	63V
C529	1-162-199-31	CERAMIC	10PF	5%	50V
C530	1-162-211-31	CERAMIC	33PF	5%	50V
C531	1-136-157-00	FILM	0.022MF	5%	50V
C532	1-136-157-00	FILM	0.022MF	5%	50V
C533	1-136-157-00	FILM	0.022MF	5%	50V
C534	1-162-179-11	CERAMIC	0.1MF		50V
C535	1-124-922-11	ELECT	1000MF	20%	63V
C536	1-124-922-11	ELECT	1000MF	20%	63V
C537	1-126-024-11	ELECT	220MF	20%	25V
C538	1-126-024-11	ELECT	220MF	20%	25V
C539	1-126-059-11	ELECT	10MF	20%	63V
C540	1-126-059-11	ELECT	10MF	20%	63V
C541	1-124-273-00	ELECT	3.3MF	20%	50V
C542	1-126-059-11	ELECT	10MF	20%	63V
C543	1-162-179-11	CERAMIC	0.1MF		50V
C544	1-126-043-11	ELECT	0.47MF	20%	50V
C550	1-126-062-11	ELECT	47MF	20%	63V
C551	1-126-062-11	ELECT	47MF	20%	63V
C552	1-124-484-11	ELECT	220MF	20%	35V
C553	1-124-484-11	ELECT	220MF	20%	35V
C554	1-162-179-11	CERAMIC	0.1MF		50V
C555	1-162-179-11	CERAMIC	0.1MF		50V
C556	1-162-179-11	CERAMIC	0.1MF		50V
C557	1-162-179-11	CERAMIC	0.1MF		50V
C558	1-136-165-00	FILM	0.1MF	5%	50V
C559	1-126-059-11	ELECT	10MF	20%	63V
C701	1-124-584-00	ELECT	100MF	20%	10V
C702	1-124-994-11	ELECT	100MF	20%	10V
C710	1-164-159-11	CERAMIC	0.1MF		50V
C711	1-164-159-11	CERAMIC	0.1MF		50V
C712	1-164-159-11	CERAMIC	0.1MF		50V
C713	1-164-159-11	CERAMIC	0.1MF		50V

Ref.No.	Part No.	Description			
C714	1-164-159-11	CERAMIC	0.1MF		50V
C901	1-126-017-11	ELECT	6800MF	20%	16V
C902	1-164-159-11	CERAMIC	0.1MF		50V
C903	1-126-016-11	ELECT	4700MF	20%	16V
C904	1-124-473-11	ELECT	1000MF	20%	10V
C905	1-126-104-11	ELECT	470MF	20%	35V
C906	1-126-104-11	ELECT	470MF	20%	35V
C907	1-124-473-11	ELECT	1000MF	20%	10V
C908	1-126-052-11	ELECT	100MF	20%	50V
C909	1-164-159-11	CERAMIC	0.1MF		50V
C910	1-126-129-11	ELECT	6800MF	20%	35V
C911	1-126-129-11	ELECT	6800MF	20%	35V
C912	1-124-130-00	ELECT	100MF	20%	63V
C913	1-124-922-11	ELECT	1000MF	20%	63V
C914	1-124-922-11	ELECT	1000MF	20%	63V
C922 ⚠	1-161-742-00	CERAMIC	0.0022MF	20%	400V
C923 ⚠	1-161-742-00	CERAMIC	0.0022MF	20%	400V
C924 ⚠	1-161-742-00	(55ES)...CERAMIC	0.0022MF	20%	400V
C925 ⚠	1-161-742-00	CERAMIC	0.0022MF	20%	400V
C926	1-136-165-00	FILM	0.1MF	5%	50V
C927	1-136-177-00	FILM	1MF	5%	50V
C928 ⚠	1-161-744-00	CERAMIC	0.01MF		400V
C930	1-164-159-11	CERAMIC	0.1MF		50V
C931	1-124-556-11	ELECT	2200MF	20%	16V
C932	1-164-159-11	CERAMIC	0.1MF		50V
C933	1-164-159-11	CERAMIC	0.1MF		50V
C951	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C953	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C954	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C955	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C956	1-124-778-00	ELECT CHIP	22MF	20%	6.3V
C957	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C958	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C959	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C960	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
C961	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C962	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C963	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C965	1-164-298-11	CERAMIC CHIP	0.15MF	10%	25V
C966	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C967	1-124-778-00	ELECT CHIP	22MF	20%	6.3V
C968	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C969	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C971	1-164-298-11	CERAMIC CHIP	0.15MF	10%	25V
C973	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C974	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C975	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C976	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
C977	1-163-020-00	CERAMIC CHIP	0.0082MF	10%	50V
C978	1-162-638-11	CERAMIC CHIP	1MF		16V
C979	1-163-020-00	CERAMIC CHIP	0.0082MF	10%	50V
C980	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C981	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C982	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C983	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C984	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C985	1-163-005-11	CERAMIC CHIP	470PF	10%	50V

Ref.No.	Part No.	Description
CN01	*1-564-336-00	PIN, CONNECTOR 2P
CN02	*1-564-336-61	PIN, CONNECTOR 2P
CN03	*1-564-498-11	PIN, CONNECTOR 5P
CN034	*1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P
CN035	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN036	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
CN037	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
CN051	*1-563-660-11	CONNECTOR 9P
CN052	*1-563-660-11	CONNECTOR 9P
CN102	*1-568-369-11	HOUSING,CONNECTOR(PC BOARD) 8P
CN103	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN104	*1-564-337-61	PIN, CONNECTOR 3P
CN105	*1-564-337-00	PIN, CONNECTOR 3P
CN106	*1-564-338-00	PIN, CONNECTOR 4P
CN131	*1-564-712-11	PIN, CONNECTOR (SMALL TYPE)10P
CN132	*1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P
CN151	*1-564-519-11	PLUG, CONNECTOR 4P
CN301	*1-564-706-31	PIN, CONNECTOR (SMALL TYPE) 4P
CN302	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P
CN304	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P
CN305	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN307	*1-564-714-11	PIN, CONNECTOR (SMALL TYPE)12P
CN308	*1-564-339-00	PIN, CONNECTOR 5P
CN311	*1-564-712-11	PIN, CONNECTOR (SMALL TYPE)10P
CN312	*1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P
CN332	*1-564-336-00	PIN, CONNECTOR 2P
CN333	*1-564-514-11	PLUG, CONNECTOR 11P (TEST)
CN391	*1-564-511-11	PLUG, CONNECTOR 8P
CN392	*1-564-506-11	PLUG, CONNECTOR 3P
CN393	*1-564-505-11	PLUG, CONNECTOR 2P
CN394	*1-564-505-11	(75ES/700)...PLUG, CONNECTOR 2P
CN501	*1-560-339-00	PIN, CONNECTOR 9P
CN502	*1-560-339-00	PIN, CONNECTOR 9P
CN512	*1-564-519-11	PLUG, CONNECTOR 4P
CN513	*1-564-507-11	PLUG, CONNECTOR 4P
CN515	*1-564-507-11	PLUG, CONNECTOR 4P
CN516	*1-564-507-11	PLUG, CONNECTOR 4P
CN571	*1-564-341-11	PIN, CONNECTOR 7P
CN572	*1-564-340-61	PIN, CONNECTOR 6P
CN573	*1-564-338-00	PIN, CONNECTOR 4P
CN576	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN774	*1-564-342-11	PIN, CONNECTOR 8P
CN775	*1-564-336-00	PIN, CONNECTOR 2P
CN901	*1-564-321-00	PIN, CONNECTOR 2P
CN933	*1-564-518-11	PLUG, CONNECTOR 3P
CN951	*1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P
CN952	*1-564-728-11	PIN, CONNECTOR (SMALL TYPE)12P
D305	8-719-107-94	DIODE 1SS202-1
D306	8-719-200-82	DIODE 11ES2
D313	8-719-914-13	DIODE HZ4CLL
D314	8-719-200-82	DIODE 11ES2
D320	8-719-107-94	DIODE 1SS202-1
D501	8-719-901-59	DIODE KV1320
D502	8-719-903-27	DIODE 1SS168
D503	8-719-107-94	DIODE 1SS202-1
D504	8-719-200-77	DIODE 10E2N
D505	8-719-200-82	DIODE 11ES2

Note:
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Replace only with part number specified.

Note:
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Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
D506	8-719-200-82	DIODE 11ES2
D507	8-719-107-94	DIODE 1SS202-1
D510	8-719-107-94	DIODE 1SS202-1
D511	8-719-107-94	DIODE 1SS202-1
D512	8-719-107-94	DIODE 1SS202-1
D513	8-719-107-94	DIODE 1SS202-1
D701	8-719-107-94	DIODE 1SS202-1
D703	8-719-107-94	DIODE 1SS202-1
D901	8-719-311-72	DIODE RBV-406H-01
D905	8-719-200-82	DIODE 11ES2
D906	8-719-200-82	DIODE 11ES2
D907	8-719-200-89	DIODE 31DF2-FA
D908	8-719-200-89	DIODE 31DF2-FA
D909	8-719-200-89	DIODE 31DF2-FA
D910	8-719-200-89	DIODE 31DF2-FA
D911	8-719-107-94	DIODE 1SS202-1
D912	8-719-107-94	DIODE 1SS202-1
D913	8-719-200-82	DIODE 11ES2
D914	8-719-200-82	DIODE 11ES2
D915	8-719-200-82	DIODE 11ES2
D916	8-719-200-82	DIODE 11ES2
D931	8-719-107-94	DIODE 1SS202-1
D933	8-719-107-94	DIODE 1SS202-1
D934	8-719-200-82	DIODE 11ES2
F901 ⚠	1-532-286-00	(55ES).....FUSE, TIME-LAG (2.5A)
F901 ⚠	1-532-744-11	(75ES/700)...FUSE, GLASS TUBE (2.5A)
FL701	1-519-562-11	INDICATOR TUBE, FLUORESCENT
IC11	8-759-013-22	IC LM358M
IC101	8-759-900-72	IC NE5532P
IC101A	8-759-107-68	IC CX20115A
IC102	8-759-900-72	IC NE5532P
IC102A	8-759-013-22	IC LM358M
IC201	8-759-900-72	IC NE5532P
IC202	8-759-900-72	IC NE5532P
IC301	8-759-917-18	IC SN74HCU04N
IC302	8-759-232-49	IC TC74HC132AP
IC303	8-759-917-18	IC SN74HCU04N
IC304	8-759-135-80	IC UPC358C
IC305	8-759-926-17	IC SN74HC153NS
IC306	8-759-947-57	IC CXD1136Q
IC307	8-752-334-27	IC CXD2601Q
IC308	8-759-906-24	IC SN74LS624N
IC309	8-759-925-90	IC SN74HC74NS
IC310	8-752-330-68	IC CXK58257M-12L
IC311	8-752-030-63	IC CXA1046M
IC312	8-752-816-04	IC CXP80524-012Q
IC314	8-759-008-71	IC LM324N
IC315	8-759-916-20	IC SN74HC14N
IC316	8-759-135-80	IC UPC358C
IC317	8-759-987-16	IC LM393P
IC318	8-759-135-80	IC UPC358C
IC319	8-759-910-70	IC MB3763PS
IC320	8-759-633-65	IC M54641L
IC321	8-759-971-12	IC PST529E
IC322	8-759-604-35	IC M5F78M05L
IC331	8-759-977-72	IC GP1F31R (DIGITAL IN OPTICAL)

Ref.No.	Part No.	Description
IC332	8-759-977-71	IC GP1F31T (DIGITAL OUT OPTICAL)
IC333	8-759-917-18	IC SN74HCU04N
IC431	8-759-925-78	IC SN74HC10NS
IC432	8-759-995-76	IC PST529C
IC501	8-759-999-32	IC SM5813APT
IC503	8-759-917-11	IC SN74HC393N
IC504	8-752-335-51	(75ES).....IC CXD2552Q-1
IC504	8-752-335-52	(55ES/700)...IC CXD2552Q-2
IC505	8-759-250-81	IC TC5081AP
IC506	8-759-031-58	IC SC7SU04F
IC507	8-759-604-35	IC M5F78M05L
IC508	8-759-604-36	IC M5F78M08L
IC509	8-759-981-98	IC RC4560DD
IC510	8-759-945-58	IC RC4558P
IC520	8-759-602-83	IC M5238P
IC521	8-759-972-47	IC LF412CN
IC522	8-759-999-09	IC CS5326-KP
IC523	8-759-604-35	IC M5F78M05L
IC524	8-759-982-52	IC RC79M05FA
IC701	8-752-811-84	IC CXP5058H-652Q
IC702	8-759-995-09	IC MSM6338RS
IC703	8-752-330-59	IC CXK1011P
IC704	8-749-920-59	IC A1QH3020S
IC931	8-759-148-79	IC UPC2406HF
IC932	8-759-634-55	IC M5F7805L-720
IC951	8-752-032-26	IC CXA1045Q
J151	1-568-101-11	JACK, PIN 4P (LINE IN/OUT)
J161	1-565-327-11	JACK, LARGE TYPE 1P (PHONES)
J181	1-566-922-21	(75ES/700)...JACK, PIN 1P (DIGITAL OUT COAXIAL)
J191	1-568-750-21	JACK, PIN (1P SHIELD TYPE) (DIGITAL IN COAXIAL)
JW11	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW12	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW101	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW102	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW103	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW104	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW105	1-216-296-00	METAL GLA7F 0 5% 1/8W
JW106	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW107	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW108	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW109	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW110	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW111	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW112	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW113	1-216-296-00	METAL GLAZE 0 5% 1/8W
L301	1-410-509-11	INDUCTOR 10UH
L302	1-410-498-11	INDUCTOR 1.2UH
L303	1-410-509-11	INDUCTOR 10UH
L304	1-410-509-11	INDUCTOR 10UH
L305	1-410-509-11	INDUCTOR 10UH
L306	1-410-509-11	INDUCTOR 10UH
L307	1-410-509-11	INDUCTOR 10UH
L310	1-410-953-11	(75ES/700)...INDUCTOR, SMALL TYPE
L501	1-460-042-11	COIL (WITH CORE) 4.7UH

Note:
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Replace only with part number specified.

Note:
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Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
L502	1-460-042-11	COIL (WITH CORE) 4.7UH
L503	1-410-324-11	INDUCTOR 4.7UH
L505	1-410-324-11	INDUCTOR 4.7UH
L506	1-410-324-11	INDUCTOR 4.7UH
L901 ⚠	1-424-051-11	COIL, LINE FILTER
L951	1-408-777-00	INDUCTOR CHIP 10UH
L952	1-408-791-00	INDUCTOR CHIP 150UH
L953	1-408-791-00	INDUCTOR CHIP 150UH
M901	A-2003-448-A	MOTOR ASSY (CASSETTE COMPARTMENT)
M902	8-835-306-01	MOTOR, DC U-17A (CAPSTAN)
M903	A-2003-545-A	MOTOR ASSY (CONTROL)
M905	8-835-346-11	MOTOR, DC U-16B (REEL)
PH11	8-719-751-42	DIODE NJL5141E-AA
PH21	8-719-751-42	DIODE NJL5141E-AA
PH901	1-808-957-11	PHOTO SENSOR (END T)
PH902	1-808-957-11	PHOTO SENSOR (END S)
PL301	1-518-664-11	LAMP, PILOT
PL302	1-518-664-11	LAMP, PILOT
PM901	1-464-724-31	ENCODER, ROTARY
PM902	1-454-462-21	SOLENOID, PLUNGER (LOADING)
PM903	1-454-482-21	SOLENOID, PLUNGER (REEL MOTOR CONTROL)
Q11	8-729-216-22	TRANSISTOR 2SA1162
Q21	8-729-216-22	TRANSISTOR 2SA1162
Q101	8-729-107-85	TRANSISTOR 2SC3623A-K
Q101A	8-729-100-66	TRANSISTOR 2SC1623
Q102	8-729-107-85	TRANSISTOR 2SC3623A-K
Q102A	8-729-101-07	TRANSISTOR 2SB798-DL
Q103	8-729-107-85	TRANSISTOR 2SC3623A-K
Q201	8-729-107-85	TRANSISTOR 2SC3623A-K
Q202	8-729-107-85	TRANSISTOR 2SC3623A-K
Q203	8-729-107-85	TRANSISTOR 2SC3623A-K
Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q302	8-729-801-93	TRANSISTOR 2SD1387
Q303	8-729-400-82	TRANSISTOR 2SD1266-P
Q304	8-729-801-84	TRANSISTOR 2SB1013-4
Q305	8-729-900-80	TRANSISTOR DTC114ES
Q306	8-729-900-80	TRANSISTOR DTC114ES
Q317	8-729-900-80	TRANSISTOR DTC114ES
Q318	8-729-900-80	TRANSISTOR DTC114ES
Q319	8-729-900-80	TRANSISTOR DTC114ES
Q320	8-729-801-84	TRANSISTOR 2SB1013-4
Q321	8-729-801-93	TRANSISTOR 2SD1387
Q322	8-729-900-80	TRANSISTOR DTC114ES
Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q402	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q502	8-729-200-56	TRANSISTOR 2SK241GR
Q503	8-729-200-56	TRANSISTOR 2SK241GR
Q504	8-729-900-61	TRANSISTOR DTA114ES
Q505	8-729-900-80	TRANSISTOR DTC114ES
Q506	8-729-900-61	TRANSISTOR DTA114ES
Q507	8-729-900-80	TRANSISTOR DTC114ES
Q508	8-729-900-80	TRANSISTOR DTC114ES
Q509	8-729-900-61	TRANSISTOR DTA114ES
Q510	8-729-107-85	TRANSISTOR 2SC3623A-K
Q511	8-729-900-61	TRANSISTOR DTA114ES
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q707	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q901	8-729-140-93	TRANSISTOR 2SB733-34
Q902	8-729-167-72	TRANSISTOR 2SC2676-1F
Q903	8-729-127-53	TRANSISTOR 2SC2275-P
Q904	8-729-167-72	TRANSISTOR 2SC2676-1F
Q905	8-729-113-92	TRANSISTOR 2SA1138-1F
Q906	8-729-190-53	TRANSISTOR 2SA985A
Q907	8-729-113-92	TRANSISTOR 2SA1138-1F
Q921	8-729-900-80	TRANSISTOR DTC114ES
Q922	8-729-900-80	TRANSISTOR DTC114ES
Q923	8-729-203-02	TRANSISTOR 2SK30A-O
Q924	8-729-203-02	TRANSISTOR 2SK30A-O
Q925	8-729-920-97	TRANSISTOR 2SB1187-EF
Q931	8-729-900-80	TRANSISTOR DTC114ES
Q932	8-729-119-76	TRANSISTOR 2SA1175-HFE
R11	1-216-041-00	METAL GLAZE 470 5% 1/10W
R12	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R13	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R14	1-216-103-00	METAL GLAZE 180K 5% 1/10W
R15	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R16	1-216-077-00	METAL GLAZE 15K 5% 1/10W
R17	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W
R21	1-216-041-00	METAL GLAZE 470 5% 1/10W
R22	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R23	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R24	1-216-103-00	METAL GLAZE 180K 5% 1/10W
R25	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R101	1-247-154-00	CARBON 9.1K 5% 1/4W
R101A	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R102	1-247-154-00	CARBON 9.1K 5% 1/4W
R102A	1-216-075-00	METAL GLAZE 12K 5% 1/10W
R103	1-247-721-11	CARBON 4.7K 5% 1/4W
R103A	1-216-029-00	METAL GLAZE 150 5% 1/10W
R104	1-247-721-11	CARBON 4.7K 5% 1/4W
R104A	1-216-058-00	METAL GLAZE 2.4K 5% 1/10W
R105	1-247-152-00	CARBON 8.2K 5% 1/4W
R105A	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R106	1-249-583-11	CARBON 20K 5% 1/4W
R106A	1-216-084-00	METAL GLAZE 30K 5% 1/10W
R107	1-247-152-00	CARBON 8.2K 5% 1/4W
R107A	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R108	1-249-583-11	CARBON 20K 5% 1/4W
R108A	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R109	1-247-722-11	CARBON 5.6K 5% 1/4W
R109A	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R110	1-247-722-11	CARBON 5.6K 5% 1/4W
R110A	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R111	1-247-722-11	CARBON 5.6K 5% 1/4W
R111A	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R112	1-247-722-11	CARBON 5.6K 5% 1/4W
R112A	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R113	1-249-556-11	CARBON 1.5K 5% 1/4W
R113A	1-216-025-00	METAL GLAZE 100 5% 1/10W

Note:
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Ref.No.	Part No.	Description			
R114	1-249-556-11	CARBON	1.5K	5%	1/4W
R115	1-249-469-11	CARBON	100K	5%	1/4W
R116	1-247-704-11	CARBON	220	5%	1/4W
R117	1-249-469-11	CARBON	100K	5%	1/4W
R118	1-249-497-11	CARBON	33K	5%	1/4W
R119	1-247-721-11	CARBON	4.7K	5%	1/4W
R120	1-249-462-11	CARBON	22K	5%	1/4W
R121	1-247-704-11	CARBON	220	5%	1/4W
R122	1-249-429-11	CARBON	10K	5%	1/4W
R123	1-249-429-11	CARBON	10K	5%	1/4W
R124	1-249-429-11	CARBON	10K	5%	1/4W
R125	1-246-545-00	CARBON	1M	5%	1/4W
R126	1-246-545-00	CARBON	1M	5%	1/4W
R130	1-246-545-00	CARBON	1M	5%	1/4W
R131	1-247-717-11	CARBON	2.2K	5%	1/4W
R132	1-249-586-11	CARBON	27K	5%	1/4W
R133	1-249-469-11	CARBON	100K	5%	1/4W
R134	1-249-520-11	CARBON	47	5%	1/4W
R135	1-249-512-11	CARBON	22	5%	1/4W
R151	1-249-586-11	CARBON	27K	5%	1/4W
R152	1-249-586-11	CARBON	27K	5%	1/4W
R153	1-249-657-11	CARBON	220	5%	1/2W
R154	1-249-657-11	CARBON	220	5%	1/2W
R181	1-249-405-11	(75ES/700)...CARBON	100	5%	1/4W
R183	1-247-804-11	(75ES/700)...CARBON	75	5%	1/4W
R191	1-247-804-11	CARBON	75	5%	1/4W
R201	1-247-154-00	CARBON	9.1K	5%	1/4W
R202	1-247-154-00	CARBON	9.1K	5%	1/4W
R203	1-247-721-11	CARBON	4.7K	5%	1/4W
R204	1-247-721-11	CARBON	4.7K	5%	1/4W
R205	1-247-152-00	CARBON	8.2K	5%	1/4W
R206	1-249-583-11	CARBON	20K	5%	1/4W
R207	1-247-152-00	CARBON	8.2K	5%	1/4W
R208	1-249-583-11	CARBON	20K	5%	1/4W
R209	1-247-722-11	CARBON	5.6K	5%	1/4W
R210	1-247-722-11	CARBON	5.6K	5%	1/4W
R211	1-247-722-11	CARBON	5.6K	5%	1/4W
R212	1-247-722-11	CARBON	5.6K	5%	1/4W
R213	1-249-556-11	CARBON	1.5K	5%	1/4W
R214	1-249-556-11	CARBON	1.5K	5%	1/4W
R215	1-249-469-11	CARBON	100K	5%	1/4W
R216	1-247-704-11	CARBON	220	5%	1/4W
R217	1-249-469-11	CARBON	100K	5%	1/4W
R218	1-249-497-11	CARBON	33K	5%	1/4W
R219	1-247-721-11	CARBON	4.7K	5%	1/4W
R220	1-249-462-11	CARBON	22K	5%	1/4W
R221	1-247-704-11	CARBON	220	5%	1/4W
R222	1-249-429-11	CARBON	10K	5%	1/4W
R223	1-249-429-11	CARBON	10K	5%	1/4W
R224	1-249-429-11	CARBON	10K	5%	1/4W
R225	1-246-545-00	CARBON	1M	5%	1/4W
R226	1-246-545-00	CARBON	1M	5%	1/4W
R230	1-246-545-00	CARBON	1M	5%	1/4W
R231	1-247-717-11	CARBON	2.2K	5%	1/4W
R232	1-249-586-11	CARBON	27K	5%	1/4W
R233	1-249-469-11	CARBON	100K	5%	1/4W
R234	1-249-520-11	CARBON	47	5%	1/4W

Ref.No.	Part No.	Description			
R235	1-249-512-11	CARBON	22	5%	1/4W
R302	1-249-437-11	CARBON	47K	5%	1/4W
R303	1-249-421-11	CARBON	2.2K	5%	1/4W
R304	1-249-417-11	CARBON	1K	5%	1/4W
R305	1-249-425-11	CARBON	4.7K	5%	1/4W
R306	1-249-441-11	CARBON	100K	5%	1/4W
R307	1-249-429-11	CARBON	10K	5%	1/4W
R308	1-249-429-11	CARBON	10K	5%	1/4W
R309	1-249-421-11	CARBON	2.2K	5%	1/4W
R310	1-249-421-11	CARBON	2.2K	5%	1/4W
R311	1-249-435-11	CARBON	33K	5%	1/4W
R312	1-249-429-11	CARBON	10K	5%	1/4W
R313	1-249-433-11	CARBON	22K	5%	1/4W
R314	1-249-425-11	CARBON	4.7K	5%	1/4W
R315	1-249-433-11	CARBON	22K	5%	1/4W
R316	1-249-429-11	CARBON	10K	5%	1/4W
R317	1-247-830-11	CARBON	910	5%	1/4W
R318	1-249-437-11	CARBON	47K	5%	1/4W
R319	1-249-411-11	CARBON	330	5%	1/4W
R320	1-249-437-11	CARBON	47K	5%	1/4W
R323	1-249-401-11	CARBON	47	5%	1/4W
R324	1-249-429-11	CARBON	10K	5%	1/4W
R325	1-249-429-11	CARBON	10K	5%	1/4W
R326	1-249-429-11	CARBON	10K	5%	1/4W
R327	1-249-437-11	CARBON	47K	5%	1/4W
R328	1-249-437-11	CARBON	47K	5%	1/4W
R329	1-249-437-11	CARBON	47K	5%	1/4W
R330	1-249-437-11	CARBON	47K	5%	1/4W
R331	1-249-437-11	CARBON	47K	5%	1/4W
R332	1-249-437-11	CARBON	47K	5%	1/4W
R333	1-249-401-11	CARBON	47	5%	1/4W
R336	1-249-417-11	CARBON	1K	5%	1/4W
R337	1-249-417-11	CARBON	1K	5%	1/4W
R338	1-249-435-11	CARBON	33K	5%	1/4W
R339	1-249-435-11	CARBON	33K	5%	1/4W
R340	1-249-419-11	CARBON	1.5K	5%	1/4W
R341	1-249-435-11	CARBON	33K	5%	1/4W
R342	1-249-429-11	CARBON	10K	5%	1/4W
R343	1-249-435-11	CARBON	33K	5%	1/4W
R344	1-249-419-11	CARBON	1.5K	5%	1/4W
R345	1-249-429-11	CARBON	10K	5%	1/4W
R346	1-249-435-11	CARBON	33K	5%	1/4W
R347	1-249-435-11	CARBON	33K	5%	1/4W
R348	1-249-425-11	CARBON	4.7K	5%	1/4W
R349	1-249-425-11	CARBON	4.7K	5%	1/4W
R350	1-249-417-11	CARBON	1K	5%	1/4W
R351 ⚠	1-215-881-11	METAL OXIDE	15	5%	2W F
R352	1-249-417-11	CARBON	1K	5%	1/4W
R353	1-249-401-11	CARBON	47	5%	1/4W
R361	1-249-413-11	CARBON	470	5%	1/4W
R362	1-249-393-11	CARBON	10	5%	1/4W
R363	1-249-413-11	CARBON	470	5%	1/4W
R368	1-249-433-11	CARBON	22K	5%	1/4W
R369	1-249-423-11	CARBON	3.3K	5%	1/4W
R370	1-249-423-11	CARBON	3.3K	5%	1/4W
R371	1-249-423-11	CARBON	3.3K	5%	1/4W
R372	1-247-727-11	CARBON	10	5%	1/2W

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Ref.No.	Part No.	Description				
R382	1-249-429-11	CARBON	10K	5%	1/4W	
R383	1-249-433-11	CARBON	22K	5%	1/4W	
R384	1-249-429-11	CARBON	10K	5%	1/4W	
R385	1-249-433-11	CARBON	22K	5%	1/4W	
R401	1-249-425-11	CARBON	4.7K	5%	1/4W	
R402	1-249-429-11	CARBON	10K	5%	1/4W	
R403	1-249-429-11	CARBON	10K	5%	1/4W	
R404	1-249-429-11	CARBON	10K	5%	1/4W	
R405	1-247-804-11	CARBON	75	5%	1/4W	
R406	1-247-804-11	CARBON	75	5%	1/4W	
R407	1-249-423-11	CARBON	3.3K	5%	1/4W	
R408	1-249-423-11	CARBON	3.3K	5%	1/4W	
R409	1-249-429-11	CARBON	10K	5%	1/4W	
R410	1-249-429-11	CARBON	10K	5%	1/4W	
R411	1-249-429-11	CARBON	10K	5%	1/4W	
R412	1-249-429-11	CARBON	10K	5%	1/4W	
R413	1-249-429-11	CARBON	10K	5%	1/4W	
R414	1-249-429-11	CARBON	10K	5%	1/4W	
R415	1-249-429-11	CARBON	10K	5%	1/4W	
R416	1-249-429-11	CARBON	10K	5%	1/4W	
R417	1-249-429-11	CARBON	10K	5%	1/4W	
R418	1-249-425-11	CARBON	4.7K	5%	1/4W	
R419	1-249-425-11	CARBON	4.7K	5%	1/4W	
R420	1-249-413-11	CARBON	470	5%	1/4W	
R421	1-249-435-11	CARBON	33K	5%	1/4W	
R422	1-249-435-11	CARBON	33K	5%	1/4W	
R423	1-249-411-11	CARBON	330	5%	1/4W	
R424	1-249-429-11	CARBON	10K	5%	1/4W	
R431	1-214-808-11	METAL	4.7	1%	1/2W	
R437	1-249-409-11	CARBON	220	5%	1/4W	
R438	1-249-409-11	CARBON	220	5%	1/4W	
R439	1-249-409-11	CARBON	220	5%	1/4W	
R440	1-247-804-11	CARBON	75	5%	1/4W	
R441	1-249-405-11	CARBON	100	5%	1/4W	
R442	1-249-417-11	CARBON	1K	5%	1/4W	
R443	1-249-429-11	CARBON	10K	5%	1/4W	
R480	1-247-881-00	CARBON	120K	5%	1/4W	
R499	1-249-421-11	CARBON	2.2K	5%	1/4W	
R507	1-249-417-11	CARBON	1K	5%	1/4W	
R508	1-249-423-11	CARBON	3.3K	5%	1/4W	
R509	1-249-417-11	CARBON	1K	5%	1/4W	
R510	1-249-423-11	CARBON	3.3K	5%	1/4W	
R512	1-249-433-11	CARBON	22K	5%	1/4W	
R513	1-249-435-11	CARBON	33K	5%	1/4W	
R514	1-249-417-11	CARBON	1K	5%	1/4W	
R515	1-247-903-00	CARBON	1M	5%	1/4W	
R516	1-247-903-00	CARBON	1M	5%	1/4W	
R517	1-249-429-11	CARBON	10K	5%	1/4W	
R518	1-249-428-11	CARBON	8.2K	5%	1/4W	
R519	1-249-441-11	CARBON	100K	5%	1/4W	
R520	1-249-417-11	CARBON	1K	5%	1/4W	
R521	1-249-417-11	CARBON	1K	5%	1/4W	
R522	1-249-417-11	CARBON	1K	5%	1/4W	
R524	1-249-417-11	CARBON	1K	5%	1/4W	
R525	1-247-903-00	CARBON	1M	5%	1/4W	
R527 ⚠	1-212-857-00	FUSIBLE	10	5%	1/4W	F
R528 ⚠	1-212-857-00	FUSIBLE	10	5%	1/4W	F

Ref.No.	Part No.	Description			
R529	1-249-437-11	CARBON	47K	5%	1/4W
R530	1-249-417-11	CARBON	1K	5%	1/4W
R531	1-249-419-11	CARBON	1.5K	5%	1/4W
R532	1-247-883-00	CARBON	150K	5%	1/4W
R533	1-249-425-11	CARBON	4.7K	5%	1/4W
R534	1-249-413-11	CARBON	470	5%	1/4W
R535	1-249-424-11	CARBON	3.9K	5%	1/4W
R536	1-249-437-11	CARBON	47K	5%	1/4W
R537	1-249-441-11	CARBON	100K	5%	1/4W
R538	1-249-441-11	CARBON	100K	5%	1/4W
R540	1-216-349-00	CARBON	1	5%	1/2W
R550	1-249-504-11	CARBON	10	5%	1/4W
R702	1-249-433-11	CARBON	22K	5%	1/4W
R703	1-249-433-11	CARBON	22K	5%	1/4W
R704	1-249-425-11	CARBON	4.7K	5%	1/4W
R705	1-249-418-11	CARBON	1.2K	5%	1/4W
R706	1-249-420-11	CARBON	1.8K	5%	1/4W
R707	1-249-423-11	CARBON	3.3K	5%	1/4W
R708	1-249-428-11	CARBON	8.2K	5%	1/4W
R709	1-249-425-11	CARBON	4.7K	5%	1/4W
R710	1-249-418-11	CARBON	1.2K	5%	1/4W
R711	1-249-420-11	CARBON	1.8K	5%	1/4W
R712	1-249-423-11	CARBON	3.3K	5%	1/4W
R713	1-249-428-11	CARBON	8.2K	5%	1/4W
R714	1-249-425-11	CARBON	4.7K	5%	1/4W
R715	1-249-418-11	CARBON	1.2K	5%	1/4W
R716	1-249-420-11	CARBON	1.8K	5%	1/4W
R717	1-249-423-11	CARBON	3.3K	5%	1/4W
R718	1-249-428-11	CARBON	8.2K	5%	1/4W
R719	1-249-425-11	CARBON	4.7K	5%	1/4W
R720	1-249-418-11	CARBON	1.2K	5%	1/4W
R721	1-249-420-11	CARBON	1.8K	5%	1/4W
R722	1-249-423-11	CARBON	3.3K	5%	1/4W
R723	1-249-428-11	CARBON	8.2K	5%	1/4W
R724	1-249-425-11	CARBON	4.7K	5%	1/4W
R725	1-249-418-11	CARBON	1.2K	5%	1/4W
R726	1-249-420-11	CARBON	1.8K	5%	1/4W
R727	1-249-423-11	CARBON	3.3K	5%	1/4W
R728	1-249-428-11	CARBON	8.2K	5%	1/4W
R729	1-249-425-11	CARBON	4.7K	5%	1/4W
R730	1-249-418-11	CARBON	1.2K	5%	1/4W
R731	1-249-420-11	CARBON	1.8K	5%	1/4W
R732	1-249-423-11	CARBON	3.3K	5%	1/4W
R733	1-249-428-11	CARBON	8.2K	5%	1/4W
R734	1-249-425-11	CARBON	4.7K	5%	1/4W
R735	1-249-418-11	CARBON	1.2K	5%	1/4W
R736	1-249-420-11	CARBON	1.8K	5%	1/4W
R737	1-249-423-11	CARBON	3.3K	5%	1/4W
R738	1-249-428-11	CARBON	8.2K	5%	1/4W
R739	1-249-425-11	CARBON	4.7K	5%	1/4W
R740	1-249-418-11	CARBON	1.2K	5%	1/4W
R741	1-249-420-11	CARBON	1.8K	5%	1/4W
R742	1-249-423-11	CARBON	3.3K	5%	1/4W
R743	1-249-428-11	CARBON	8.2K	5%	1/4W
R744	1-249-433-11	CARBON	22K	5%	1/4W
R745	1-249-433-11	CARBON	22K	5%	1/4W
R746	1-249-433-11	CARBON	22K	5%	1/4W

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Ref.No.	Part No.	Description				
R747	1-249-433-11	CARBON	22K	5%	1/4W	
R748	1-249-433-11	CARBON	22K	5%	1/4W	
R749	1-249-433-11	CARBON	22K	5%	1/4W	
R750	1-249-433-11	CARBON	22K	5%	1/4W	
R751	1-249-433-11	CARBON	22K	5%	1/4W	
R755	1-249-441-11	CARBON	100K	5%	1/4W	
R756	1-249-441-11	CARBON	100K	5%	1/4W	
R761	1-249-441-11	CARBON	100K	5%	1/4W	
R762	1-249-441-11	CARBON	100K	5%	1/4W	
R763	1-249-433-11	CARBON	22K	5%	1/4W	
R764	1-249-433-11	CARBON	22K	5%	1/4W	
R771	1-247-764-11	CARBON	10K	5%	1/2W	
R906	1-247-704-11	CARBON	220	5%	1/4W	
R907	1-247-713-11	CARBON	1K	5%	1/4W	
R908	1-247-717-11	CARBON	2.2K	5%	1/4W	
R909	1-249-466-11	CARBON	56K	5%	1/4W	
R910	1-247-713-11	CARBON	1K	5%	1/4W	
R911	1-247-713-11	CARBON	1K	5%	1/4W	
R912	1-247-717-11	CARBON	2.2K	5%	1/4W	
R913	1-247-704-11	CARBON	220	5%	1/4W	
R914	1-247-713-11	CARBON	1K	5%	1/4W	
R915	1-247-717-11	CARBON	2.2K	5%	1/4W	
R916	1-247-717-11	CARBON	2.2K	5%	1/4W	
R927	1-249-429-11	CARBON	10K	5%	1/4W	
R928 ⚠	1-212-865-00	FUSIBLE	22	5%	1/4W	F
R931	1-249-425-11	CARBON	4.7K	5%	1/4W	
R932 ⚠	1-215-889-00	METAL OXIDE	330	5%	2W	F
R933	1-249-425-11	CARBON	4.7K	5%	1/4W	
R934	1-249-433-11	CARBON	22K	5%	1/4W	
R935	1-249-433-11	CARBON	22K	5%	1/4W	
R936 ⚠	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R937	1-249-425-11	CARBON	4.7K	5%	1/4W	
R951	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R952	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R953	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R954	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R955	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R956	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R957	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R958	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R959	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R960	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R961	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R962	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R963	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R964	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R965	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R966	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R967	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R968	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R969	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R970	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R971	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R972	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R973	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R974	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	

Ref.No.	Part No.	Description
RV151	1-238-885-11	RES, VAR 20K/20K (REC LEVEL)
RV161	1-238-359-11	RES, VAR, CARBON 20K/20K (LEVEL)
RV301	1-238-017-11	RES, ADJ, CARBON 22K
RV302	1-238-017-11	RES, ADJ, CARBON 22K
RV303	1-238-015-11	RES, ADJ, CARBON 4.7K
RV304	1-238-015-11	RES, ADJ, CARBON 4.7K
RV305	1-238-017-11	RES, ADJ, CARBON 22K
RV951	1-238-237-11	RES, ADJ, CERMET 470
RV952	1-238-237-11	RES, ADJ, CERMET 470
RY501	1-515-726-11	RELAY
S11	1-570-975-11	SWITCH, SLIDE (CASSETTE TABLE IN)
S12	1-572-247-11	SWITCH, SLIDE (CASSETTE TABLE OUT)
S701	1-571-305-11	SWITCH, PUSH (1 KEY)(POWER)
S702	1-571-520-11	SWITCH, SLIDE (TIMER)
S703	1-570-974-11	SWITCH, SLIDE (REC MODE)
S704	1-572-230-11	SWITCH, ROTARY (INPUT)
S705	1-554-596-21	SWITCH, KEY BOARD (SKIP ID/WRITE)
S706	1-554-596-21	SWITCH, KEY BOARD (SKIP ID/ERASE)
S707	1-554-596-21	SWITCH, KEY BOARD (7)
S708	1-554-596-21	SWITCH, KEY BOARD (8)
S709	1-554-596-21	SWITCH, KEY BOARD (9)
S710	1-554-596-21	SWITCH, KEY BOARD (START ID/WRITE)
S711	1-554-596-21	SWITCH, KEY BOARD (START ID/ERASE)
S712	1-554-596-21	SWITCH, KEY BOARD (4)
S713	1-554-596-21	SWITCH, KEY BOARD (5)
S714	1-554-596-21	SWITCH, KEY BOARD (6)
S715	1-554-596-21	SWITCH, KEY BOARD (START ID/AUDIO)
S716	1-554-596-21	SWITCH, KEY BOARD (START ID/RENUMBER)
S717	1-554-596-21	SWITCH, KEY BOARD (1)
S718	1-554-596-21	SWITCH, KEY BOARD (2)
S719	1-554-596-21	SWITCH, KEY BOARD (3)
S720	1-554-596-21	SWITCH, KEY BOARD (REPEAT)
S721	1-554-596-21	SWITCH, KEY BOARD (SKIP PLAY)
S722	1-554-596-21	SWITCH, KEY BOARD (MARGIN RESET)
S723	1-554-596-21	SWITCH, KEY BOARD (FADER)
S724	1-554-596-21	SWITCH, KEY BOARD (MODE/RESET)
S725	1-554-596-21	SWITCH, KEY BOARD (MODE/COUNTER)
S726	1-554-596-21	SWITCH, KEY BOARD (◀◀)
S727	1-554-596-21	SWITCH, KEY BOARD (▶▶)
S728	1-554-937-11	SWITCH, KEY BOARD (●REC)
S729	1-554-937-11	SWITCH, KEY BOARD (▮▮ PAUSE)
S730	1-554-937-11	SWITCH, KEY BOARD (○REC MUTE)
S731	1-554-937-11	SWITCH, KEY BOARD (▲OPEN/CLOSE)
S732	1-554-937-11	SWITCH, KEY BOARD (■)
S733	1-554-937-11	SWITCH, KEY BOARD (▶)
S734	1-554-596-21	SWITCH, KEY BOARD (⏮)
S735	1-554-596-21	SWITCH, KEY BOARD (⏭)
S736	1-554-596-21	SWITCH, KEY BOARD (END ID/WRITE)
S737	1-554-596-21	SWITCH, KEY BOARD (END ID/ERASE)
S738	1-554-596-21	SWITCH, KEY BOARD (CLEAR)
S739	1-554-596-21	SWITCH, KEY BOARD (0)
S740	1-554-596-21	SWITCH, KEY BOARD (MUSIC SCAN)
S901	1-571-878-11	SWITCH, PUSH (2 KEY) (CASSETTE IN/REC PROOF)
S902	1-570-771-21	SWITCH (LIMIT)
T182	1-421-946-11	(75ES/700)...TRANSFORMER, PULSE

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
T901 ⚠	1-450-080-11	(75ES/700)...TRANSFORMER, POWER
T901 ⚠	1-450-164-11	(55ES).....TRANSFORMER, POWER
X301	1-567-816-11	VIBRATOR, CRYSTAL (18.816MHz)
X302	1-567-815-11	VIBRATOR, CRYSTAL (22.5792MHz)
X303	1-578-667-11	VIBRATOR, CRYSTAL (49.152MHz)
X701	1-577-359-21	VIBRATOR, CERAMIC (4.19MHz)
ZD902	8-719-933-33	DIODE HZS6A1L
ZD903	8-719-933-33	DIODE HZS6A1L

ACCESSORY & PACKING MATERIAL

1-465-312-11	REMOTE COMMANDER (RM-D55)
1-558-271-11	(75ES)...CORD, CONNECTION
1-559-533-11	(700)....CORD, CONNECTION
*3-701-613-00	(55ES:AEP/75ES)...BAG, POLYETHYLENE
3-703-450-01	(75ES:US/700)...INSTRUCTION
3-704-366-01	(55ES:AEP/75ES)...SCREW (CASE) (M3X8)
3-751-364-11	(55ES).....MANUAL, INSTRUCTION
3-751-364-21	(700).....MANUAL, INSTRUCTION
3-751-364-41	(55ES:AEP).....MANUAL, INSTRUCTION
3-751-688-21	(75ES).....MANUAL, INSTRUCTION
3-751-688-31	(75ES:Canadian)...MANUAL, INSTRUCTION
3-707-584-01	COVER, BATTERY (for RM-D55)
*4-936-610-01	(55ES)...INDIVIDUAL CARTON
*4-936-611-01	(700)....INDIVIDUAL CARTON
*4-936-623-01	(75ES)...INDIVIDUAL CARTON
*4-931-451-01	(700).....CUSHION
*4-936-624-01	(55ES/75ES)...CUSHION

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.